

26602U\_Patent-IN\_sequence\_listing.ST25.txt  
SEQUENCE LISTING

<110> Cytos Biotechnology AG  
Ivanova, Lidia  
Renner, Wolfgang A  
Saudan, Philippe A

<120> Gene Expression System

<130> PA029WO

<150> US 60/404,928

<151> 2002-08-22

<150> US 60/432,259

<151> 2002-12-11

<160> 26

<170> PatentIn version 3.2

<210> 1

<211> 11282

<212> DNA

<213> Artificial Sequence

<220>

<223> cDNA

<400> 1

ctgacgcgcc ctgtagcggc gcattaagcg cggcgggtgt ggtggttacg cgcagcgtga	60
ccgctacact tgccagcgcc ctagcgcccg ctcccttcgc tttcttcctt tcctttctcg	120
ccacgttcgc cggctttccc cgtcaagctc taaatcgggg gctcccttta gggttccgat	180
ttagtgcttt acggcacctc gaccccaaaa aacttgatta gggatgatgtg tcacgtagtg	240
ggccatcgcc ctgatagacg gtttttcgcc ctttgacgtt ggagtcacg ttctttaata	300
gtggactctt gttccaaact ggaacaacac tcaaccctat ctcggtctat tcttttgatt	360
tataagggat tttgccgatt tcggcctatt ggttaaaaaa tgagctgatt taacaaaaat	420
ttaacgcgaa ttttaacaaa atattaacgc ttacaatttc cattcgccat tcaggctgcg	480
caactgtttg gaagggcgat cgggtcgggc ctcttcgcta ttacgccagc tggcgaaagg	540
gggatgtgct gcaaggcgat taagtgggt aacgccaggg ttttcccagt cacgacgttg	600
taaaacgacg gccagtgagc gcgcaattaa ccctcactaa agggaacaaa agctggctag	660
tggatccagt cttatgcaat actctttagt tcttgcaaca tggtaacgat gagttagcaa	720
catgccttac aaggagagaa aaagcaccgt gcatgccgat tggtggaagt aaggtggtac	780
gatcgtgcct tattaggaag gcaacagacg ggtctgacat ggattggacg aaccactgaa	840
ttccgcattg cagagatatt gtattttaagt gccctacctc gataccgtcg agattgacgg	900
cgtagtacac actattgaat caaacagccg accaattgca ctaccatcac aatggagaag	960
ccagtagtaa acgtagacgt agacccccag agtccgtttg tcgtgcaact gcaaaaaagc	1020

26602U\_Patent-IN\_sequence\_listing.ST25.txt

ttcccgcaat	ttgaggtagt	agcacagcag	gtcactccaa	atgaccatgc	taatgccaga	1080
gcattttcgc	atctggccag	taaactaatc	gagctggagg	ttcctaccac	agcgacgatc	1140
ttggacatag	gcagcgcacc	ggctcgtaga	atgttttccg	agcaccagta	tcattgtgtc	1200
tgcccatgc	gtagtccaga	agacccggac	cgcattgatga	aatacgccag	taaactggcg	1260
gaaaaagcgt	gcaagattac	aaacaagaac	ttgcatgaga	agattaagga	tctccggacc	1320
gtacttgata	cgccggatgc	tgaacacca	tcgctctgct	ttcacaacga	tgttacctgc	1380
aacatgcgtg	ccgaatattc	cgtcatgcag	gacgtgtata	tcaacgctcc	cggaactatc	1440
tatcatcagg	ctatgaaagg	cgtgaggacc	ctgtactgga	ttggcttcga	caccaccag	1500
ttcatgttct	cggctatggc	aggttcgtac	cctgctgaca	acaccaactg	ggccgacgag	1560
aaagtccttg	aagcgcgtaa	catcggactt	tgcagcacia	agctgagtga	aggtaggaca	1620
ggaaaattgt	cgataatgag	gaagaaggag	ttgaagcccg	ggcgcgggt	ttatttctcc	1680
gtaggatcga	cactttatcc	agaacacaga	gccagcttgc	agagctggca	tcttccatcg	1740
gtgttccact	tgaatggaaa	gcagtcgtac	acttgccgct	gtgatacagt	ggtgagttgc	1800
gaaggctacg	tagtgaagaa	aatcaccatc	agtcccggga	tcacgggaga	aaccgtggga	1860
tacgcggtta	cacacaatag	cgagggttcc	ttgctatgca	aagttactga	cacagtaaaa	1920
ggagaacggg	tatcgttccc	tgtgtgcacg	tacatcccgg	ccaccatattg	cgatcagatg	1980
actgggtataa	tggccacgga	tatatcacct	gacgatgcac	aaaaacttct	ggttgggctc	2040
aaccagcgaa	ttgtcattaa	cggtaggact	aacaggaaca	ccaacaccat	gcaaaattac	2100
cttctgccga	tcatagcaca	agggttcagc	aaatgggcta	aggagcgcaa	ggatgatctt	2160
gataacgaga	aaatgctggg	tactagagaa	cgcaagctta	cgtatggctg	cttgtgggcg	2220
tttcgcacta	agaaagtaca	ttcgttttat	cgccacactg	gaacgcagac	ctgcgtaaaa	2280
gtcccagcct	cttttagcgc	ttttcccatg	tcgtccgtat	ggacgacctc	tttgcccatg	2340
tcgctgaggc	agaaattgaa	actggcattg	caaccaaaga	aggaggaaaa	actgctgcag	2400
gtctcggagg	aattagtcac	ggaggccaag	gctgcttttg	aggatgctca	ggaggaagcc	2460
agagcggaga	agctccgaga	agcacttcca	ccattagtgg	cagacaaagg	catcgaggca	2520
gccgcagaag	ttgtctgcga	agtggagggg	ctccaggcgg	acatcgagac	agcattagtt	2580
gaaaccccg	gcggtcacgt	aaggataata	cctcaagcaa	atgaccgtat	gatcggacag	2640
tatatcgttg	tctcgccaaa	ctctgtgctg	aagaatgcca	aactcgcacc	agcgcacccg	2700
ctagcagatc	aggttaagat	cataacacac	tccggaagat	caggaaggta	cgcggtcgaa	2760
ccatacgacg	ctaaagtact	gatgccagca	ggagggtgccg	taccatggcc	agaattccta	2820
gcactgagtg	agagcgccac	gttagtgtac	aacgaaagag	agtttgtgaa	ccgcaaacta	2880

## 26602U\_Patent-IN\_sequence\_listing.ST25.txt

taccacattg	ccatgcatgg	ccccgccaag	aatacagaag	aggagcagta	caagggttaca	2940
aaggcagagc	ttgcagaaac	agagtacgtg	tttgacgtgg	acaagaagcg	ttgcgttaag	3000
aaggaagaag	cctcaggtct	ggtcctctcg	ggagaactga	ccaaccctcc	ctatcatgag	3060
ctagctctgg	agggactgaa	gacccgacct	gcggtcccgt	acaaggtcga	aacaatagga	3120
gtgataggca	caccgggggtc	gggcaagtca	gctattatca	agtcaactgt	cacggcacga	3180
gatcttgtta	ccagcggaaa	gaaagaaaat	tgtcgcgaaa	ttgaggccga	cgtgctaaga	3240
ctgaggggta	tgcagattac	gtcgaagaca	gtagattcgg	ttatgctcaa	cggatgccac	3300
aaagccgtag	aagtgctgta	cgttgacgaa	gcgttcgcgt	gccacgcagg	agcactactt	3360
gccttgattg	ctatcgtcag	gccccgcaag	aaggtagtac	tatgcggaga	cccatgcaa	3420
tgcggattct	tcaacatgat	gcaactaaag	gtacatttca	atcacctga	aaaagacata	3480
tgcaccaaga	cattctacaa	gtatatctcc	cggcgttgca	cacagccagt	tacagctatt	3540
gtatcgacac	tgcattacga	tggaaagatg	aaaaccacga	acccgtgcaa	gaagaacatt	3600
gaaatcgata	ttacaggggc	cacaaagccg	aagccagggg	atatcatcct	gacatgtttc	3660
cgcggtggg	ttaagcaatt	gcaaatcgac	tatcccggac	atgaagtaat	gacagccgcg	3720
gcctcacaag	ggctaaccag	aaaaggagtg	tatgccgtcc	ggcaaaaagt	caatgaaaac	3780
ccactgtacg	cgatcacatc	agagcatgtg	aacgtgttgc	tcacccgcac	tgaggacagg	3840
ctagtgtgga	aaaccttgca	gggcgacca	tggattaagc	agcccactaa	catacctaaa	3900
ggaaactttc	aggctactat	agaggactgg	gaagctgaac	acaagggaat	aattgctgca	3960
ataaacagcc	ccactccccg	tgccaatccg	ttcagctgca	agaccaacgt	ttgctgggcg	4020
aaagcattgg	aaccgatact	agccacggcc	ggtatcgta	ttaccggttg	ccagtggagc	4080
gaactgttcc	cacagtttgc	ggatgacaaa	ccacattcgg	ccattttacgc	cttagacgta	4140
at ttgcatta	agtttttcgg	catggacttg	acaagcggac	tgttttctaa	acagagcatc	4200
ccactaacgt	accatccccg	cgattcagcg	aggccggtag	ctcattggga	caacagccca	4260
ggaacccgca	agtatgggta	cgatcacgcc	attgccgccc	aactctcccc	tagattttccg	4320
gtgttccagc	tagctgggaa	gggcacacaa	cttgatttgc	agacggggag	aaccagagtt	4380
atctctgcac	agcataacct	ggccccggtg	aaccgcaatc	ttcctcacgc	cttagtcccc	4440
gagtacaagg	agaagcaacc	cggccccggtc	aaaaaattct	tgaaccagtt	caaacaccac	4500
tcagtacttg	tggtatcaga	ggaaaaaatt	gaagctcccc	gtaagagaat	cgaatggatc	4560
gccccgattg	gcatagccgg	tgcagataag	aactacaacc	tggcttttcgg	gtttccgccc	4620
caggcacggt	acgacctggg	gttcatcaac	attggaacta	aatacagaaa	ccaccacttt	4680
cagcagtgcg	aagaccatgc	ggcgacctta	aaaacccttt	cgcgttcggc	cctgaattgt	4740
ttaaactcag	gaggcaccct	cgtgggtgaag	tcctatggct	acgccgaccg	caacagtgcg	4800

## 26602U\_Patent-IN\_sequence\_listing.ST25.txt

gacgtagtca	ccgctcttgc	cagaaagttt	gtcaggggtgt	ctgcagcgag	accagattgt	4860	
gtctcaagca	atacagaaat	gtacctgatt	ttccgacaac	tagacaacag	ccgtacacgg	4920	
caattcaccc	cgcaccatct	gaattgcgtg	atttcgtccg	tgtatgaggg	tacaagagat	4980	
ggagttggag	ccgcgccgtc	ataccgcacc	aaaagggaga	atattgctga	ctgtcaagag	5040	
gaagcagttg	tcaacgcagc	caatccgctg	ggtagaccag	gcgaaggagt	ctgccgtgcc	5100	
atctataaac	gttggccgac	cagttttacc	gattcagcca	cggagacagg	caccgcaaga	5160	
atgactgtgt	gcctaggaaa	gaaagtgatc	cacgcggtcg	gccctgattt	ccggaagcac	5220	
ccagaagcag	aagccttgaa	attgctacaa	aacgcctacc	atgcagtggc	agacttagta	5280	
aatgaacata	acatcaagtc	tgtcgccatt	ccactgctat	ctacaggcat	ttacgcagcc	5340	
ggaaaagacc	gccttgaagt	atcacttaac	tgcttgacaa	ccgcgctaga	cagaactgac	5400	
gcggacgtaa	ccatctattg	cctggataag	aagtggaagg	aaagaatcga	cgcggcactc	5460	
caacttaagg	agtctgtaac	agagctgaag	gatgaagata	tggagatcga	cgatgagtta	5520	
gtatggattc	atccagacag	ttgcttgaag	ggaagaaagg	gattcagtac	tacaaaagga	5580	
aaattgtatt	cgtacttcga	aggcaccaaa	ttccatcaag	cagcaaaaga	catggcgag	5640	
ataaagggtc	tgttccctaa	tgaccaggaa	agtaatgaac	aactgtgtgc	ctacatattg	5700	
ggtgagacca	tggaagcaat	ccgcgaaaag	tgcccggtcg	accataacc	gtcgtctagc	5760	
ccgccccaaa	cgttgccgtg	cctttgcatg	tatgccatga	cgccagaaaag	ggtccacaga	5820	
cttagaagca	ataacgtcaa	agaagttaca	gtatgtctct	ccacccccct	tcctaagcac	5880	
aaaattaaga	atgttcagaa	ggttcagtgc	acgaaagtag	tcctgtttta	tccgcacact	5940	
cccgcattcg	ttcccggccc	taagtacata	gaagtgccag	aacagcctac	cgctcctcct	6000	
gcacaggccg	aggaggcccc	cgaagttgta	gcgacaccgt	caccatctac	agctgataac	6060	
acctcgcttg	atgtcacaga	catctcactg	gatatggatg	acagtagcga	aggctcactt	6120	
ttttcgagct	ttagcggatc	ggacaactct	attactagta	tggacagttg	gtcgtcagga	6180	
cctagttcac	tagagatagt	agaccgaagg	caggtgggtg	tggctgacgt	tcatgccgtc	6240	
caagagcctg	cccctattcc	accgccaagg	ctaaagaaga	tggcccgcc	ggcagcggca	6300	
agaaaagagc	ccactccacc	ggcaagcaat	agctctgagt	ccctccacct	ctcttttggt	6360	
ggggtatcca	tgtccctcgg	atcaattttc	gacggagaga	cggcccgcca	ggcagcggta	6420	
caacccttg	caacaggccc	cacggatgtg	cctatgtctt	tcggatcggt	ttccgacgga	6480	
gagattgatg	agctgagccg	cagagtaact	gagtccgaac	ccgtcctggt	tggatcattt	6540	
gaaccggg	cag	gaactc	aattatatcg	tcccgatcag	ccgtatcttt	tccactacgc	6600
aagcagagac	gtagacgcag	gagcaggagg	actgaatact	gactaaccgg	ggtaggtggg	6660	

## 26602U\_Patent-IN\_sequence\_listing.ST25.txt

tacatatattt	cgacggacac	aggccctggg	cacttgcaaa	agaagtccgt	tctgcagaac	6720
cagcttacag	aaccgacctt	ggagcgcaat	gtcctggaaa	gaattcatgc	cccggtgctc	6780
gacacgtcga	aagaggaaca	actcaaactc	aggtaccaga	tgatgcccac	cgaagccaac	6840
aaaagtaggt	accagtctcg	taaagtagaa	aatcagaaa	ccataaccac	tgagcgacta	6900
ctgtcaggac	tacgactgta	taactctgcc	acagatcagc	cagaatgcta	taagatcacc	6960
tatccgaaac	cattgtactc	cagtagcgta	ccggcgaaact	actccgatcc	acagttcgct	7020
gtagctgtct	gtaacaacta	tctgcatgag	aactatccga	cagtagcatc	ttatcagatt	7080
actgacgagt	acgatgctta	cttggaatg	gtagacgaga	cagtcgcatg	cctggatact	7140
gcaacctttc	gccccgctaa	gcttagaagt	tacccgaaaa	aacatgagta	tagagccccg	7200
aatatccgca	gtgcggttcc	atcagcgatg	cagaacacgc	tacaaaatgt	gctcattgcc	7260
gcaactaaaa	gaaattgcaa	cgtcacgcag	atgcbtgaac	tgccaacact	ggactcagcg	7320
acattcaatg	tcgaatgctt	tcgaaaatat	gcatgtaatg	acgagtattg	ggaggagttc	7380
gctcggaagc	caattaggat	taccactgag	tttgtcaccg	catatgtagc	tagactgaaa	7440
ggccctaagg	ccgccgcact	atttgcaaag	acgtataatt	tggtcccatt	gcaagaagtg	7500
cctatggata	gattcgtcat	ggacatgaaa	agagacgtga	aagttaacacc	aggcacgaaa	7560
cacacagaag	aaagaccgaa	agtacaagtg	atacaagccg	cagaaccctt	ggcgactgct	7620
tacttatgcg	ggattcaccg	ggaattagtg	cgtaggctta	cggccgtctt	gcttccaaac	7680
attcacacgc	tttttgacat	gtcggcgagg	gatttttgatg	caatcatagc	agaacacttc	7740
aagcaaggcg	acccggtact	ggagacggat	atcgcatcat	tcgacaaaag	ccaagacgac	7800
gctatggcgt	taaccggtct	gatgatcttg	gaggacctgg	gtgtggatca	accactactc	7860
gacttgatcg	agtgcgcctt	tggagaaata	tcatccaccc	atctacctac	gggtactcgt	7920
tttaaattcg	gggcatgat	gaaatccgga	atgttcctca	cactttttgt	caacacagtt	7980
ttgaatgtcg	ttatcgccag	cagagtacta	gaagagcggc	ttaaaacgtc	cagatgtgca	8040
gcgttcattg	gcgacgacaa	catcatacat	ggagtagtat	ctgacaaaga	aatggctgag	8100
aggtgcgcca	cctggctcaa	catggagggt	aagatcatcg	acgcagtcac	cggtagagaga	8160
ccaccttact	tctgcggcgg	atttatcttg	caagattcgg	ttacttccac	agcgtgccgc	8220
gtggcggatc	ccctgaaaag	gctgtttaag	ttgggtaaac	cgctcccagc	cgacgacgag	8280
caagacgaag	acagaagacg	cgctctgcta	gatgaaacaa	aggcgtgggt	tagagtaggt	8340
ataacaggca	ctttagcagt	ggccgtgacg	acccggtatg	aggtagacaa	tattacacct	8400
gtcctactgg	cattgagaac	ttttgccag	agcaaaagag	cattccaagc	catcagaggg	8460
gaaataaagc	atctctacgg	tggtcctaaa	tagtcagcat	agtacatttc	atctgactaa	8520
tactacaaca	ccaccacctc	tagacgcgta	gatctcacgt	gagcatgcag	gccttgggcc	8580

26602U\_Patent-IN\_sequence\_listing.ST25.txt

caatgatccg accagcaaaa ctcgatgtac ttccgaggaa ctgatgtgca taatgcatca	8640
ggctggtaca ttagatcccc gcttaccgcg ggcaatatag caacactaaa aactcgatgt	8700
acttccgagg aagcgcagtg cataatgctg cgcagtggtg ccacataacc actatattaa	8760
ccatttatct agcggacgcc aaaaactcaa tgtattttctg aggaagcgtg gtgcataatg	8820
ccacgcagcg tctgcataac ttttattatt tcttttatta atcaacaaaa ttttgttttt	8880
aacatttcaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaggga ttcccaactt	8940
gtttattgca gcttataatg gttacaaata aagcaatagc atcacaaatt tcacaaataa	9000
agcatttttt tcaactgcatt ctagttgtgg tttgtccaaa ctcatcaatg tatcttatca	9060
tgtctggatc cgtcgagacg cgtccaattc gccctatagt gagtcgtatt acgcgcgctt	9120
ggcgtaatca tgggtcatagc tgtttcctgt gtgaaattgt tatccgctca caattccaca	9180
caacatacga gccggaagca taaagtgtaa agcctggggg gcctaattgag tgagctaact	9240
cacattaatt gcgttgcgct cactgcccgc tttccagtcg ggaaacctgt cgtgccagct	9300
gcattaatga atcggccaac gcgcggggag aggcggtttg cgtattgggc gctcttccgc	9360
ttcctcgctc actgactcgc tgcgctcggg cgttcggtg cggcgagcgg tatcagctca	9420
ctcaaaggcg gtaatacggg tatccacaga atcaggggat aacgcaggaa agaacatgtg	9480
agcaaaaggc cagcaaaagg ccaggaaccg taaaaaggcc gcgttgctgg cgtttttcca	9540
taggctccgc cccctgacg agcatcacia aaatcgacgc tcaagtcaga ggtggcgaaa	9600
cccgcagga ctataaagat accaggcggt tccccctgga agctccctcg tgcgctctcc	9660
tgttccgacc ctgccgctta ccggatacct gtccgccttt ctcccttcgg gaagcgtggc	9720
gctttctcaa tgctcacgct gtaggtatct cagttcggtg taggtcgttc gctccaagct	9780
gggctgtgtg cacgaacccc ccgttcagcc cgaccgctgc gccttatccg gtaactatcg	9840
tcttgagtcc aaccgggtaa gacacgactt atcgccactg gcagcagcca ctggtaacag	9900
gattagcaga gcgaggatg taggcggtgc tacagagttc ttgaagtggg ggcctaacta	9960
cggctacact agaaggacag tatttggtat ctgcgctctg ctgaagccag ttaccttcgg	10020
aaaaagagtt ggtagctctt gatccggcaa acaaaccacc gctggtagcg gtgggtttttt	10080
tgtttgcaag cagcagatta cgcgcagaaa aaaaggatct caagaagatc ctttgatctt	10140
ttctacgggg tctgacgctc agtggaaacga aaactcacgt taagggattt tgggtcatgag	10200
attatcaaaa aggatcttca cctagatcct tttaaattaa aaatgaagtt ttaaataaat	10260
ctaaagtata tatgagtaaa cttgggtctga cagttaccaa tgcttaatca gtgaggcacc	10320
tatctcagcg atctgtctat ttcgttcac catagttgcc tgactccccg tcgtgtagat	10380
aactacgata cgggaggggct taccatctgg cccagtgct gcaatgatac cgcgagacc	10440

26602U\_Patent-IN\_sequence\_listing.ST25.txt

acgctcaccg gctccagatt tatcagcaat aaaccagcca gccggaaggg ccgagcgcag	10500
aagtggctcct gcaactttat ccgcctccat ccagtctatt aattgttgcc gggaagctag	10560
agtaagtagt tcgccagtta atagtttgcg caacgttggt gccattgcta caggcatcgt	10620
ggtgtcacgc tcgtcgtttg gtatggcttc attcagctcc gggtcccaac gatcaaggcg	10680
agttacatga tccccatgt tgtgcaaaaa agcggttagc tccttcggtc ctccgatcgt	10740
tgtcagaagt aagttggccg cagtgttatc actcatgggt atggcagcac tgcataattc	10800
tcttactgtc atgccatccg taagatgctt ttctgtgact ggtgagtact caaccaagtc	10860
attctgagaa tagtgtatgc ggcgaccgag ttgctcttgc ccggcgtaa tacgggataa	10920
taccgcgcca catagcagaa ctttaaaagt gctcatcatt ggaaaacgtt cttcggggcg	10980
aaaactctca aggatcttac cgctgttag atccagttcg atgtaacca ctcgtgcacc	11040
caactgatct tcagcatctt ttactttcac cagcgtttct gggtagcaa aaacaggaag	11100
gcaaaatgcc gcaaaaaagg gaataagggc gacacggaaa tgttgaatac tcatactctt	11160
cctttttcaa tattattgaa gcatttatca gggttattgt ctcatgagcg gatacatatt	11220
tgaatgtatt tagaaaaata aacaaatagg gggtccgcgc acatttcccc gaaaagtgcc	11280
ac	11282

<210> 2  
 <211> 13068  
 <212> DNA  
 <213> Artificial Sequence

<220>  
 <223> cDNA

<400> 2	
ctgacgcgcc ctgtagcggc gcattaagcg cggcgggtgt ggtggttacg cgcagcgtga	60
ccgctacact tgccagcgcc ctagcggccc ctcctttcgc tttcttcctt tcctttctcg	120
ccacgttcgc cggcggatcc ggccattagc catattattc attggttata tagcataaat	180
caatattggc tattggccat tgcatacgtt gtatccatat cataatatgt acatttatat	240
tggctcatgt ccaacattac cgccatgttg acattgatta ttgactagtt attaatagta	300
atcaattacg gggtcattag ttcatagccc atatatggag ttccgcgtta cataacttac	360
ggtaaagtgc ccgcctggct gaccgcccac cgacccccgc ccattgacgt caataatgac	420
gtatgttccc atagtaacgc caatagggac tttccattga cgtcaatggg tggagtattt	480
acggtaaact gccacttgg cagtacatca agtgtatcat atgccaagta cgtcccctat	540
tgacgtcaat gacggtaaatt ggccgcctg gcattatgcc cagtacatga ccttatggga	600
ctttcctact tggcagtaca tctacgtatt agtcatcgct attaccatgg tgatgcgggt	660
ttggcagtag atcaatgggc gtggatagcg gtttgactca cggggatttc caagtctcca	720

## 26602U\_Patent-IN\_sequence\_listing.ST25.txt

ccccattgac	gtcaatggga	gtttgttttg	gcacaaaat	caacgggact	ttccaaaatg	780			
tcgtaacaac	tccgccccat	tgacgcaa	gggcggtagg	cgtgtacggt	gggaggtcta	840			
tataagcaga	gctcgtttag	tgaaccgtat	tgacggcgta	gtacacacta	ttgaatcaaa	900			
cagccgacca	attgcactac	catcacaatg	gagaagccag	tagtaa	acgt agacgtagac	960			
ccccagagtc	cgtttgtcgt	gcaactgcaa	aaaagcttcc	cgcaatttga	ggtagtagca	1020			
cagcaggtca	ctccaaatga	ccatgcta	gccagagcat	tttcgcatct	ggccagtaaa	1080			
cta	atcgagc	tggaggttcc	taccacagcg	acgatcttgg	acataggcag	cgcaccggct	1140		
cgtagaatgt	tttccgagca	ccagtatcat	tgtgtctgcc	ccatgcgtag	tccagaagac	1200			
ccggaccgca	tgatgaaata	tgccagtaaa	ctggcgga	aa	gcgtgcaa	gattacaaac	1260		
aagaacttgc	atgagaagat	taaggatctc	cggaccgtac	ttgatacgcc	ggatgctgaa	1320			
acaccatcgc	tctgctttca	caacgatgtt	acctgcaaca	tg	cg	tgccga	atattccgtc	1380	
atgcaggacg	tgtatatcaa	cgctcccga	actatctatc	atcaggctat	gaaaggcgtg	1440			
cggaccctgt	actggattgg	cttcgacacc	accagttca	tg	ttctcggc	tatggcaggt	1500		
tcgtaccctg	cgtacaacac	caactgggcc	gacgagaa	ag	tc	cttgaagc	gcgtaacatc	1560	
ggacttttga	gcacaaagct	gagtgaaggt	aggacaggaa	aattgtcgat	aatgaggaag	1620			
aaggagttga	agcccgggtc	gcgggtttat	ttctccgtag	gatcgacact	ttatccagaa	1680			
cacagagcca	gcttg	cagag	ctggcatctt	ccatcggtgt	tccacttgaa	tg	gaaagcag	1740	
tcgtacactt	gccgctgtga	tacagtgg	tg	ag	ttgcgaag	g	tacgtagt	gaagaaaatc	1800
accatcagtc	ccgggatcac	gggagaaacc	gtgggatacg	cggttacaca	caatagc	gag	1860		
ggcttcttgc	tatgcaaagt	tactgacaca	gtaaaaggag	aacgggtatc	gttccctgtg	1920			
tgcacgtaca	tcccggccac	catatg	cgat	gactg	gtataatggc	cacggatata	1980		
tcacctgacg	atgcacaaaa	acttctgg	tt	gg	ctcaacc	agcgaattgt	cattaacgg	2040	
aggactaaca	ggaacaccaa	caccatgcaa	aattaccttc	tgccgatcat	agcacaaggg	2100			
ttcagcaa	at	gggctaagga	gcgcaaggat	gatcttgata	acgagaaaat	gctgggtact	2160		
agagaacgca	agcttacgta	tggctgcttg	tgggcgtttc	gcactaagaa	agtacattcg	2220			
ttttatcgcc	cacctggaac	gcagacctgc	gtaaaagtcc	cagcctcttt	tagcgctttt	2280			
ccc	atgtcgt	ccgtatggac	gacctctttg	ccc	atgtcgc	tgaggcagaa	attgaaactg	2340	
gcattgcaac	caaagaagga	ggaaaaactg	ctgcaggtct	cggaggaatt	agtcatggag	2400			
gcc	aaggctg	cttttgagga	tgctcaggag	gaagccagag	cggagaagct	ccgagaagca	2460		
cttccac	cat	tagtggcaga	caaaggcatc	gaggcagccg	cagaagttgt	ctg	cgaagtg	2520	
gaggggctcc	aggcggacat	cggagcagca	ttagttgaaa	ccccgcgcgg	tcacgtaagg	2580			



## 26602U\_Patent-IN\_sequence\_listing.ST25.txt

ataatacctc aagcaaatga ccgtatgatc ggacagtata tcgttgtctc gccaaactct	2640
gtgctgaaga atgccaaact cgcaccagcg caccgcctag cagatcaggt taagatcata	2700
acacactccg gaagatcagg aaggtacgcg gtcgaaccat acgacgctaa agtactgatg	2760
ccagcaggag gtgccgtacc atggccagaa ttcctagcac tgagtgagag cgccacgtta	2820
gtgtacaacg aaagagagtt tgtgaaccgc aaactatacc acattgccat gcatggcccc	2880
gccaaagaata cagaagagga gcagtacaag gttacaaagg cagagcttgc agaaacagag	2940
tacgtgtttg acgtggacaa gaagcgttgc gttaagaagg aagaagcctc aggtctggtc	3000
ctctcgggag aactgaccaa ccctccctat catgagctag ctctggaggg actgaagacc	3060
cgacctgcgg tcccgtacaa ggtcgaacaa ataggagtga taggcacacc ggggtcgggc	3120
aagtcagcta ttatcaagtc aactgtcacg gcacgagatc ttgttaccag cggaaagaaa	3180
gaaaattgtc gcgaaattga ggccgacgtg ctaagactga ggggtatgca gattacgtcg	3240
aagacagtag attcgggttat gctcaacgga tgccacaaag ccgtagaagt gctgtacgtt	3300
gacgaagcgt tcgcgtgcca cgcaggagca ctacttgctt tgattgctat cgtcaggccc	3360
cgcaagaagg tagtactatg cggagacccc atgcaatgcg gattcttcaa catgatgcaa	3420
ctaaaggtac atttcaatca ccctgaaaaa gacatatgca ccaagacatt ctacaagtat	3480
atctcccggc gttgcacaca gccagttaca gctattgtat cgacactgca ttacgatgga	3540
aagatgaaaa ccacgaaccc gtgcaagaag aacattgaaa tcgatattac aggggccaca	3600
aagccgaagc caggggatat catcctgaca tgtttccgcg ggtgggttaa gcaattgcaa	3660
atcgactatc ccggacatga agtaatgaca gccgcggcct cacaagggct aaccagaaaa	3720
ggagtgtatg ccgtccggca aaaagtcaat gaaaaccac tgtacgcgat cacatcagag	3780
catgtgaacg tgttgctcac ccgcaactgag gacaggctag tgtggaaaac cttgcagggc	3840
gacccatgga ttaagcagct cactaacata cctaaaggaa actttcaggc tactatagag	3900
gactgggaag ctgaacacaa ggggaataatt gctgcaataa acagccccac tccccgtgcc	3960
aatccgttca gctgcaagac caacgtttgc tgggcgaaag cattggaacc gatactagcc	4020
acggccggta tcgtacttac cggttgccag tggagcgaac tgttcccaca gtttgcggt	4080
gacaaaccac attcggccat ttacgcctta gacgtaattt gcattaagtt tttcggcatg	4140
gacttgacaa gcggactgtt ttctaaacag agcatccac taacgtacca tcccgccgat	4200
tcagcgaggc cggtagctca ttgggacaac agcccaggaa cccgcaagta tgggtacgat	4260
cacgccattg ccgccgaact ctcccgtaga tttccggtgt tccagctagc tgggaagggc	4320
acacaacttg atttgagac ggggagaacc agagttatct ctgcacagca taacctggtc	4380
ccggtgaacc gcaatcttcc tcacgcctta gtccccgagt acaaggagaa gcaaccggc	4440
ccggtcgaaa aattcttgaa ccagttcaaa caccactcag tacttggtgt atcagaggaa	4500

26602U\_Patent-IN\_sequence\_listing.ST25.txt

aaaattgaag	ctccccgtaa	gagaatcgaa	tggatcgccc	cgattggcat	agccggtgca	4560
gataagaact	acaacctggc	tttcgggttt	ccgccgcagg	cacggtacga	cctgggtgttc	4620
atcaacattg	gaactaaata	cagaaaccac	cacttttcagc	agtgcgaaga	ccatgcggcg	4680
accttaaaaa	cccttttcg	ttcggccctg	aattgtttta	actcaggagg	caccctcgtg	4740
gtgaagtcct	atggctacgc	cgaccgcaac	agtgaggacg	tagtcaccgc	tcttgccaga	4800
aagtttgtca	gggtgtctgc	agcgagacca	gattgtgtct	caagcaatac	agaaatgtac	4860
ctgattttcc	gacaactaga	caacagccgt	acacggcaat	tcaccccgca	ccatctgaat	4920
tgcgtgattt	cgtccgtgta	tgaggggtaca	agagatggag	ttggagccgc	gccgtcatac	4980
cgcacaaaaa	gggagaatat	tgctgactgt	caagaggaag	cagttgtcaa	cgagaccaat	5040
ccgctgggta	gaccaggcga	aggagtctgc	cgtgccatct	ataaacgttg	gccgaccagt	5100
tttaccgatt	cagccacgga	gacaggcacc	gcaagaatga	ctgtgtgcct	aggaaagaaa	5160
gtgatccacg	cggtcggccc	tgattttccg	aagcaccag	aagcagaagc	cttgaaattg	5220
ctacaaaacg	cctaccatgc	agtggcagac	ttagtaaatg	aacataacat	caagtctgtc	5280
gccattccac	tgctatctac	aggcatttac	gcagccggaa	aagaccgcct	tgaagtatca	5340
cttaactgct	tgacaaccgc	gctagacaga	actgacgcgg	acgtaaccat	ctattgcctg	5400
gataagaagt	ggaaggaaag	aatcgacgcg	gcactccaac	ttaaggagtc	tgtaacagag	5460
ctgaaggatg	aagatatgga	gatcgacgat	gagttagtat	ggattcatcc	agacagttgc	5520
ttgaaggga	gaaagggtt	cagtactaca	aaaggaaaat	tgtattcgta	cttcgaaggc	5580
accaaattcc	atcaagcagc	aaaagacatg	gcggagataa	aggtcctgtt	ccctaattgac	5640
caggaaagta	atgaacaact	gtgtgcctac	atattgggtg	agaccatgga	agcaatccgc	5700
gaaaagtgcc	cggtcgacca	taaccctgcg	tctagcccgc	ccaaaacgtt	gccgtgcctt	5760
tgcatgtatg	ccatgacgcc	agaaagggtc	cacagactta	gaagcaataa	cgtcaaagaa	5820
gttacagtat	gctcctccac	cccccttcct	aagcacaaaa	ttaagaatgt	tcagaagggt	5880
cagtgcacga	aagtagtcct	gtttaatccg	cacactcccc	cattcgttcc	cgcccgtgta	5940
tacatagaag	tgccagaaca	gcctaccgct	cctcctgcac	aggccgagga	ggcccccgaa	6000
gttgtagcga	caccgtcacc	atctacagct	gataacacct	cgcttgatgt	cacagacatc	6060
tcactggata	tggatgacag	tagcgaaggc	tcactttttt	cgagcttttag	cggatcggac	6120
aactctatta	ctagtatgga	cagttgggtc	tcaggacctt	gttcactaga	gatagtagac	6180
cgaaggcagg	tggtgggtgg	tgacgttcac	gccgtccaag	agcctgcccc	tattccaccg	6240
ccaaggctaa	agaagatggc	ccgcctggca	gcggcaagaa	aagagcccac	tccaccggca	6300
agcaatagct	ctgagtcctt	ccacctctct	tttggtgggg	tatccatgtc	cctcggatca	6360

26602U\_Patent-IN\_sequence\_listing.ST25.txt

attttcgacg gagagacggc ccgccaggca gcggtacaac ccctggcaac aggccccacg	6420
gatgtgccta tgtcttttcgg atcgttttcc gacggagaga ttgatgagct gagccgcaga	6480
gtaactgagt ccgaacccgt cctgttttga tcatttgaac cgggcgaagt gaactcaatt	6540
atatcgtccc gatcagccgt atcttttccct ctacgcaagc agagacgtag acgcaggagc	6600
aggaggactg aatactgact aaccggggta ggtgggtaca tattttcgac ggacacaggc	6660
cctgggcact tgcaaaaagaa gtccgttctg cagaaccagc ttacagaacc gaccttgag	6720
cgcaatgtcc tggaaagaat tcatgccccg gtgctcgaca cgtcgaaaga ggaacaactc	6780
aaactcaggt accagatgat gccaccgaa gccaacaaaa gtaggtacca gtctcgtaaa	6840
gtagaaaatc agaaagccat aaccactgag cgactactgt caggactacg actgtataac	6900
tctgccacag atcagccaga atgctataag atcacctatc cgaaaccatt gtactccagt	6960
agcgtaccgg cgaactactc cgatccacag ttcgctgtag ctgtctgtaa caactatctg	7020
catgagaact atccgacagt agcatcttat cagattactg acgagtacga tgcttacttg	7080
gatatggtag acgagacagt cgcatgcctg gatactgcaa ctttctgccc cgctaagctt	7140
agaagttacc cgaaaaaaca tgagtataga gccccgaata tccgcagtgc ggttccatca	7200
gcgatgcaga acacgctaca aaatgtgctc attgccgcaa ctaaaagaaa ttgcaacgtc	7260
acgcagatgc gtgaactgcc aacactggac tcagcgacat tcaatgtcga atgctttcga	7320
aaatatgcat gtaatgacga gtattgggag gagttcgctc ggaagccaat taggattacc	7380
actgagtttg tcaccgcata tgtagctaga ctgaaaggcc ctaaggccgc cgactattt	7440
gcaaagacgt ataattttggt cccattgcaa gaagtgccta tggatagatt cgtcatggac	7500
atgaaaagag acgtgaaagt tacaccaggc acgaaacaca cagaagaaag accgaaagta	7560
caagtgatac aagccgcaga acccctggcg actgcttact tatgcgggat tcaccgggaa	7620
ttagtgcgta ggcttacggc cgtcttgctt ccaaacattc acacgctttt tgacatgtcg	7680
gcggaggatt ttgatgcaat catagcagaa cacttcaagc aaggcgaccc ggtactggag	7740
acggatatcg catcattcga caaaagccaa gacgacgcta tggcgttaac cggctctgatg	7800
atcttgaggg acctgggtgt ggatcaacca ctactcgact tgatcgagtg cgcctttgga	7860
gaaatatcat ccacccatct acctacgggt actcgtttta aattcggggc gatgatgaaa	7920
tccggaatgt tcctcacact ttttgtcaac acagttttga atgtcgttat cgccagcaga	7980
gtactagaag agcggcttaa aacgtccaga tgtgcagcgt tcattggcga cgacaacatc	8040
atacatggag tagtatctga caaagaaatg gctgagaggt gcgccacctg gctcaacatg	8100
gaggttaaga tcatcgacgc agtcatcggt gagagaccac cttacttctg cggcggatgt	8160
atcttgcaag attcgggttac ttccacagcg tgccgcgtgg cggatcccct gaaaaggctg	8220
tttaagttgg gtaaaccgct cccagccgac gacgagcaag acgaagacag aagacgcgct	8280

## 26602U\_Patent-IN\_sequence\_listing.ST25.txt

ctgctagatg	aaacaaaggc	gtggttttaga	gtaggtataa	caggcacttt	agcagtggcc	8340
gtgacgaccc	ggtatgaggt	agacaatatt	acacctgtcc	tactggcatt	gagaactttt	8400
gcccagagca	aaagagcatt	ccaagccatc	agaggggaaa	taaagcatct	ctacggtggt	8460
cctaaatagt	cagcatagta	catttcatct	gactaatacc	acaacaccac	cacctctaga	8520
ttaattaact	cgaggcgcgc	cgggccca	ggatctttgt	gaaggaacct	tacttctgtg	8580
gtgtgacata	attggacaaa	ctacctacag	agatttaaag	ctctaaggta	aatataaaat	8640
ttttaagtgt	ataatgtgtt	aaactactga	ttctaattgt	ttgtgtat	tagattccaa	8700
cctatggaac	tgatgaatgg	gagcagtgg	ggaatgcctt	taatgaggaa	aacctgtttt	8760
gctcagaaga	aatgccatct	agtgatgatg	aggctactgc	tgactctcaa	cattctactc	8820
ctccaaaaaa	gaagagaaa	gtagaagacc	ccaaggactt	tccttcagaa	ttgctaagtt	8880
ttttgagtca	tgctgtgttt	agtaatagaa	ctcttgcttg	ctttgctatt	tacaccacaa	8940
aggaaaaagc	tgactgcta	tacaagaaaa	ttatggaaaa	atatttgatg	tagcggccca	9000
atgatccgac	cagcaaaact	cgatgtactt	ccgaggaact	gatgtgcata	atgcatcagg	9060
ctggtacatt	agatccccgc	ttaccgcggg	caatatagca	acactaaaaa	ctcgatgtac	9120
ttccgaggaa	gcgcagtgca	taatgctg	cagtgttgcc	acataaccac	tatattaacc	9180
atztatctag	cggacgcca	aaactcaatg	tatttctgag	gaagcgtgg	gcataatgcc	9240
acgcagcgtc	tgcataactt	ttattatttc	ttttattaat	caacaaaatt	ttgtttttaa	9300
catttcaaaa	aaaaaaaaaa	aaaaaaaaaa	aaaaaaaaag	ggaattccca	acttgtttat	9360
tgacgcttat	aatggttaca	aataaagcaa	tagcatcaca	aatttcacaa	ataaagcatt	9420
tttttactg	cattctagtt	gtggtttgtc	caaactcatc	aatgtatctt	atcatgtctg	9480
gatccgtcga	gacgcgtg	gccgcgttag	ggtgtggaaa	gtccccaggc	tccccagcag	9540
gcagaagtat	gcaaagcatg	catctcaatt	agtcagcaac	cagggtgtgga	aagtccccag	9600
gctccccagc	aggcagaagt	atgcaaagca	tgcatctcaa	ttagtcagca	accatagtcc	9660
cgccccctaac	tccgcccata	ccgcccctaa	ctccgcccag	ttccgcccata	tctccgcccc	9720
atggctgact	aatttttttt	atztatgcag	aggccgaggc	cgcctcggcc	tctgagctat	9780
tccagaagta	gtgaggaggc	ttttttggag	gcctaggctt	ttgcaaaaag	cttgcatgcc	9840
tgacggtcgg	ccgccacgac	cggtgccgcc	accatcccct	gaccacgcc	cctgaccctt	9900
cacaaggaga	cgaccttcca	tgaccgagta	caagcccacg	gtgcgcctcg	ccaccgcga	9960
cgacgtcccc	cgggccgtac	gcaccctcgc	cgccgcgttc	gccgactacc	ccgccacgcg	10020
ccacaccgtc	gaccgggacc	gccacatcga	gcgggtcacc	gagctgcaag	aactcttcct	10080
cacgcgcgtc	gggctcgaca	tcggcaaggt	gtgggtcgcg	gacgacggcg	ccgcggtggc	10140

## 26602U\_Patent-IN\_sequence\_listing.ST25.txt

ggtctggacc acgccggaga gcgtcgaagc gggggcggtg ttcgccgaga tcggcccgcg 10200  
 catggccgag ttgagcggtt cccggctggc cgcgagcaa cagatggaag gcctcctggc 10260  
 gccgcaccgg cccaaggagc ccgctgggtt cctggccacc gtcggcgtct cgcccgacca 10320  
 ccagggcaag ggtctgggca gcgccgtcgt gctccccgga gtggaggcgg ccgagcgcg 10380  
 cggggtgccc gccttcctgg agacctccgc gccccgaac ctcccccttct acgagcggct 10440  
 cggcttcacc gtcaccgccc acgtcgaggt gcccgaaagga ccgcgcacct ggtgcatgac 10500  
 ccgcaagccc ggtgcctgac gcccgcacca cgacccgcag cgcccaccg aaaggagcgc 10560  
 acgaccccat ggctccgacc gaagccaccc ggggcggccc cgccgacccc gcacccgccc 10620  
 ccgaggccca ccgactctag ctagaggatc ataatcagcc ataccacatt tgtagagggt 10680  
 ttacttgctt taaaaaacct cccacacctc cccctgaacc tgaaacataa aatgaatgca 10740  
 attgttggtt ttaacttggt tattgcagct tataatgggt acaaataaag caatagcatc 10800  
 acaaatttca caaataaagc atttttttca ctgcattcta gttgtgggtt gtccaacgcg 10860  
 tcggtaccag cttttgttcc ctttagtgag ggttaatttc gagcttggcg taatcatggt 10920  
 catagctggt tcctgtgtga aattgttatc cgctcacaat tccacacaac atacgagccg 10980  
 gaagcataaa gtgtaaagcc tgggggtgcct aatgagttag ctaactcaca ttaattgctg 11040  
 ttcgctcact gcccgctttc cagtcgggaa acctgtcgtg ccagctgcat taatgaatcg 11100  
 gccaacgcgc ggggagaggc ggtttgcgta ttgggcgctc ttccgcttcc tcgctcactg 11160  
 actcgctgcg ctcggtcggt cggctgcggc gagcgggtatc agctcactca aaggcggtaa 11220  
 tacggttatc cacagaatca ggggataacg caggaaagaa catgtgagca aaaggccagc 11280  
 aaaaggccag gaaccgtaaa aaggccgcgt tgctggcggt tttccatagg ctccgcccc 11340  
 ctgacgagca tcacaaaaat cgacgctcaa gtcagagggt gcgaaacccg acaggactat 11400  
 aaagatacca ggcgtttccc cctggaagct ccctcgtgcg ctctcctggt ccgaccctgc 11460  
 cgcttaccgg atacctgtcc gcctttctcc cttcgggaag cgtggcgctt tctcatagct 11520  
 cacgctgtag gtatctcagt tcggtgtagg tcgttcgctc caagctgggc tgtgtgcacg 11580  
 aacccccgt tcagcccgaac cgctgcgcct tatccggtaa ctatcgtctt gagtccaacc 11640  
 cggtaaagaca cgacttatcg ccaactggcag cagccactgg taacaggatt agcagagcga 11700  
 ggtatgtagg cgggtgtaca gagttcttga agtgggtggc taactacggc tacactagaa 11760  
 gaacagtatt tggatatctgc gctctgctga agccagttac cttcggaata agagtggta 11820  
 gctcttgatc cggcaaaca accaccgctg gtagcgggtg tttttttgtt tgcaagcagc 11880  
 agattacgcg cagaaaaaaa ggatctcaag aagatccttt gatcttttct acggggtctg 11940  
 acgctcagtg gaacgaaaac tcacgttaag ggattttggt catgagatta tcaaaaagga 12000  
 tcttcaccta gatcctttta aattaaat gaagttttta atcaatctaa agtatatatg 12060

26602U\_Patent-IN\_sequence\_listing.ST25.txt

```

agtaaacttg gtctgacagt taccaatgct taatcagtga ggcacctatc tcagcgatct 12120
gtctatttcg ttcattccata gttgcctgac tccccgtcgt gtagataact acgatacggg 12180
agggcctacc atctggcccc agtgctgcaa tgataccgcg agaccacgc tcaccggctc 12240
cagattttatc agcaataaac cagccagccg gaagggccga gcgcagaagt ggtcctgcaa 12300
ctttatccgc ctccatccag tctattaatt gttgccggga agctagagta agtagttcgc 12360
cagttaatag tttgcgcaac gttgttgcca ttgctacagg catcgtggtg tcacgctcgt 12420
cgtttggtat ggcttcattc agctccggtt cccaacgata aaggcgagtt acatgatccc 12480
ccatgttggtg caaaaaagcg gttagctcct tcggtcctcc gatcgttggtc agaagtaagt 12540
tggccgcagt gttatcactc atgggttatgg cagcactgca taattctctt actgtcatgc 12600
catccgtaag atgcttttct gtgactgggtg agtactcaac caagtcattc tgagaatagt 12660
gtatgcggcg accgagttgc tcttgcccgg cgtcaatacg ggataatacc gcgccacata 12720
gcagaacttt aaaagtgtc atcattggaa aacgttcttc ggggcgaaaa ctctcaagga 12780
tcttaccgct gttgagatcc agttcgatgt aaccactcg tgcaccaac tgatcttcag 12840
catcttttac tttcaccagc gtttctgggt gagcaaaaac aggaaggcaa aatgccgcaa 12900
aaaagggaat aaggcgcgaca cggaaatgtt gaatactcat actcttcctt tttcaatatt 12960
attgaagcat ttatcagggg tattgtctca tgagcggata catatttgaa tgtatttaga 13020
aaaataaaca aataggggtt ccgcgcacat ttccccgaaa agtgccac 13068

```

<210> 3  
 <211> 25  
 <212> DNA  
 <213> Artificial Sequence

<220>  
 <223> primer

<400> 3  
 aacattgaaa tcgatattac agggg 25

<210> 4  
 <211> 20  
 <212> DNA  
 <213> Artificial Sequence

<220>  
 <223> primer

<400> 4  
 cgggttatgg tcgaccgggc 20

<210> 5  
 <211> 40  
 <212> DNA

<213> Artificial Sequence

<220>

<223> primer

<400> 5

gtgccctccc ctgagttaa acaattcagg gccgaacgcg

40

<210> 6

<211> 32

<212> DNA

<213> Artificial Sequence

<220>

<223> primer

<400> 6

gaattgttta aactcaggag gcaccctcgt gg

32

<210> 7

<211> 30

<212> DNA

<213> Artificial Sequence

<220>

<223> primer

<400> 7

ggtagacgag acagtcgcat gcctggatac

30

<210> 8

<211> 30

<212> DNA

<213> Artificial Sequence

<220>

<223> primer

<400> 8

gtatccaggc atgcgactgt ctcgtctacc

30

<210> 9

<211> 25

<212> DNA

<213> Artificial Sequence

<220>

<223> primer

<400> 9

cagaccggtt aacgccatag cgtcg

25

<210> 10

<211> 25

<212> DNA

<213> Artificial Sequence

<220>

26602U\_Patent-IN\_sequence\_listing.ST25.txt

<223> primer

<400> 10

ctctattact agtatggaca gttgg

25

<210> 11

<211> 27

<212> DNA

<213> Artificial Sequence

<220>

<223> primer

<400> 11

ctagattaat taactcgagg cgcgccg

27

<210> 12

<211> 27

<212> DNA

<213> Artificial Sequence

<220>

<223> primer

<400> 12

ggcccggcgc gcctcgagtt aattaat

27

<210> 13

<211> 30

<212> DNA

<213> Artificial Sequence

<220>

<223> primer

<400> 13

ataagaatgc cggcggatcc ggccattagc

30

<210> 14

<211> 42

<212> DNA

<213> Artificial Sequence

<220>

<223> primer

<400> 14

ccgtcaatac gggtcactaa acgagctctg cttatataga cc

42

<210> 15

<211> 38

<212> DNA

<213> Artificial Sequence

<220>

<223> primer

<400> 15



26602U_Patent-IN_sequence_listing.ST25.txt		
gctcgtttag tgaaccgtat tgacggcgta gtacacac		38
<210>	16	
<211>	20	
<212>	DNA	
<213>	Artificial Sequence	
<220>		
<223>	primer	
<400>	16	
acgtcggcct caatttcgcg		20
<210>	17	
<211>	30	
<212>	DNA	
<213>	Artificial Sequence	
<220>		
<223>	primer	
<400>	17	
gcgcgcgggc ccagaggatc tttgtgaagg		30
<210>	18	
<211>	32	
<212>	DNA	
<213>	Artificial Sequence	
<220>		
<223>	primer	
<400>	18	
gcgcgcgcgg ccgctacatc aaatattttt cc		32
<210>	19	
<211>	39	
<212>	DNA	
<213>	Artificial Sequence	
<220>		
<223>	primer	
<400>	19	
acgtacgcgt gcggccgcgt taggggtgtgg aaagtcccc		39
<210>	20	
<211>	33	
<212>	DNA	
<213>	Artificial Sequence	
<220>		
<223>	primer	
<400>	20	
acgtacgcgt tggacaaacc acaactagaa tgc		33

26602U\_Patent-IN\_sequence\_listing.ST25.txt

<210> 21  
 <211> 15081  
 <212> DNA  
 <213> Artificial Sequence

<220>  
 <223> cDNA

<400> 21  
 ctgacgcgcc ctgtagcggc gcattaagcg cggcgggtgt ggtggttacg cgcagcgtga 60  
 ccgctacact tgccagcgcc ctagcgcccc ctcttttcgc tttcttcctc tcctttctcg 120  
 ccacgttcgc cggcggatcc ggccattagc catattattc attggttata tagcataaat 180  
 caatattggc tattggccat tgcatacgtt gtatccatat cataatatgt acatttatat 240  
 tggctcatgt ccaacattac cgccatgttg acattgatta ttgactagtt attaatagta 300  
 atcaattacg gggtcattag ttcatagccc atatatggag ttccgcgta cataacttac 360  
 ggtaaatggc ccgcctggct gaccgcccaa cgacccccgc ccattgacgt caataatgac 420  
 gtatgttccc atagtaacgc caatagggac tttccattga cgtcaatggg tggagtattt 480  
 acggtaaact gcccacttgg cagtacatca agtgtatcat atgccaagta cgccccctat 540  
 tgacgtcaat gacggtaaact ggcccgcctg gcattatgcc cagtacatga ccttatggga 600  
 ctttcctact tggcagtaca tctacgtatt agtcatcgct attaccatgg tgatgcgggt 660  
 ttggcagtac atcaatgggc gtggatagcg gtttgactca cggggatttc caagtctcca 720  
 cccattgac gtcaatggga gtttgttttg gcacaaaat caacgggact ttccaaaatg 780  
 tcgtaacaac tccgccccat tgacgcaaat gggcggtagg cgtgtacggt gggaggtcta 840  
 tataagcaga gtcgtttag tgaaccgtat tgacggcgta gtacacacta ttgaatcaaa 900  
 cagccgacca attgcactac catcacaatg gagaagccag tagtaaacgt agacgtagac 960  
 cccagagtc cgtttgtcgt gcaactgcaa aaaagcttcc cgcaatttga ggtagtagca 1020  
 cagcaggta ctcctaatga ccatgcta atgccagagcat tttcgcatct ggccagtaaa 1080  
 ctaatcgagc tggaggttcc taccacagcg acgatcttgg acataggcag cgcaccggct 1140  
 cgtagaatgt tttccgagca ccagtatcat tgtgtctgcc ccatgcgtag tccagaagac 1200  
 ccggaccgca tgatgaaata tgccagtaaa ctggcgga aagcgtgcaa gattacaaac 1260  
 aagaacttgc atgagaagat taaggatctc cggaccgtac ttgatacgcc ggatgctgaa 1320  
 acaccatcgc tctgctttca caacgatgtt acctgcaaca tgcgtgccga atattccgtc 1380  
 atgcaggacg tgtatatcaa cgctcccga actatctatc atcaggctat gaaaggcgtg 1440  
 cggaccctgt actggattgg cttcgacacc acccagttca tgttctcggc tatggcagg 1500  
 tcgtaccctg cgtacaacac caactgggcc gacgagaaag tccttgaagc gcgtaacatc 1560  
 ggactttgca gcacaaagct gagtgaagggt aggacaggaa aattgtcgat aatgaggaag 1620

## 26602U\_Patent-IN\_sequence\_listing.ST25.txt

aaggagttga	agccccgggtc	gcgggtttat	ttctccgtag	gatcgacact	ttatccagaa	1680
cacagagcca	gcttgacagag	ctggcatctt	ccatcggtgt	tccacttgaa	tggaaagcag	1740
tcgtacactt	gccgctgtga	tacagtgggtg	agttgcgaag	gctacgtagt	gaagaaaatc	1800
accatcagtc	ccgggatcac	gggagaaacc	gtgggatacg	cggttacaca	caatagcgag	1860
ggcttcttgc	tatgcaaagt	tactgacaca	gtaaaaggag	aacgggtatc	gttccctgtg	1920
tgcacgtaca	tcccggccac	catatgcgat	cagatgactg	gtataatggc	cacggatata	1980
tcacctgacg	atgcacaaaa	acttctgggt	gggctcaacc	agcgaattgt	cattaacggt	2040
aggactaaca	ggaacaccaa	caccatgcaa	aattaccttc	tgccgatcat	agcacaaggg	2100
ttcagcaaat	gggctaagga	gcgcaaggat	gatcttgata	acgagaaaaat	gctgggtact	2160
agagaacgca	agcttacgta	tggctgcttg	tgggcgtttc	gcactaagaa	agtacattcg	2220
ttttatcgcc	cacctggaac	gcagacctgc	gtaaaagtcc	cagcctcttt	tagcgctttt	2280
cccatgtcgt	ccgtatggac	gacctctttg	cccatgtcgc	tgaggcagaa	attgaaactg	2340
gcattgcaac	caaagaagga	ggaaaaactg	ctgcaggtct	cggaggaatt	agtcattggag	2400
gccaaaggctg	cttttgagga	tgctcaggag	gaagccagag	cggagaagct	ccgagaagca	2460
cttcaccat	tagtggcaga	caaaggcatc	gaggcagccg	cagaagttgt	ctgcgaagtg	2520
gaggggctcc	aggcggacat	cggagcagca	ttagttgaaa	ccccgcgcgg	tcacgtaagg	2580
ataatacctc	aagcaaatga	ccgtatgatc	ggacagtata	tcgttgcttc	gccaaactct	2640
gtgctgaaga	atgccaaact	cgcaccagcg	cacccgctag	cagatcaggt	taagatcata	2700
acacactccg	gaagatcagg	aaggtagcgc	gtcgaaccat	acgacgctaa	agtactgatg	2760
ccagcaggag	gtgccgtacc	atggccagaa	ttcctagcac	tgagtgagag	cgccacgtta	2820
gtgtacaacg	aaagagagtt	tgtgaaccgc	aaactatacc	acattgccat	gcatggcccc	2880
gccaaagaata	cagaagagga	gcagtacaag	gttacaaagg	cagagcttgc	agaaacagag	2940
tacgtgtttg	acgtggacaa	gaagcgttgc	gttaagaagg	aagaagcctc	aggtctggtc	3000
ctctcgggag	aactgaccaa	ccctccctat	catgagctag	ctctggaggg	actgaagacc	3060
cgacctgcgg	tcccgtacaa	ggtcgaaaca	ataggagtga	taggcacacc	ggggtcgggc	3120
aagtcagcta	ttatcaagtc	aactgtcacg	gcacgagatc	ttgttaccag	cggaaagaaa	3180
gaaaattgtc	gcgaaattga	ggccgacgtg	ctaagactga	ggggatatgca	gattacgtcg	3240
aagacagtag	attcggttat	gctcaacgga	tgccacaaaag	ccgtagaagt	gctgtacgtt	3300
gacgaagcgt	tcgcgtgcca	cgcaggagca	ctacttgcct	tgattgctat	cgtcaggccc	3360
cgcaagaagg	tagtactatg	cggagacccc	atgcaatgcg	gattcttcaa	catgatgcaa	3420
ctaaaggtag	atttcaatca	ccctgaaaaa	gacatatgca	ccaagacatt	ctacaagtat	3480
atctcccggc	gttgacacaca	gccagttaca	gctattgtat	cgacactgca	ttacgatgga	3540

## 26602U\_Patent-IN\_sequence\_listing.ST25.txt

aagatgaaaa	ccacgaaccc	gtgcaagaag	aacattgaaa	tcgatattac	aggggcccaca	3600
aagccgaagc	caggggatat	catcctgaca	tgtttccgcg	ggtggggttaa	gcaattgcaa	3660
atcgactatc	ccggacatga	agtaatgaca	gccgcggcct	cacaagggct	aaccagaaaa	3720
ggagtgtatg	ccgtccggca	aaaagtcaat	gaaaaccac	tgtacgcgat	cacatcagag	3780
catgtgaacg	tgttgctcac	ccgcactgag	gacaggctag	tgtggaaaac	cttgcaaggc	3840
gacctatgga	ttaagcagct	cactaacata	cctaaaggaa	actttcaggc	tactatagag	3900
gactgggaag	ctgaacacaa	gggaataatt	gctgcaataa	acagccccac	tccccgtgcc	3960
aatccgttca	gctgcaagac	caacgtttgc	tgggcgaaag	cattggaacc	gatactagcc	4020
acggccggta	tcgtacttac	cggttgccag	tggagcgaac	tgttcccaca	gtttgcggat	4080
gacaaaccac	attcggccat	ttacgcctta	gacgtaattt	gcattaagtt	tttcggcatg	4140
gacttgacaa	gcggactgtt	ttctaaacag	agcatccac	taacgtacca	tcccgccgat	4200
tcagcgaggc	cggtagctca	ttgggacaac	agcccaggaa	cccgcgaagta	tgggtacgat	4260
cacgccattg	ccgccgaact	ctcccgtaga	tttccggtgt	tccagctagc	tgggaagggc	4320
acacaacttg	atttgcacac	ggggagaacc	agagttatct	ctgcacagca	taacctggtc	4380
ccggtgaacc	gcaatcttcc	tcacgcctta	gtccccgagt	acaaggagaa	gcaaccggc	4440
ccggtcgaaa	aattcttgaa	ccagttcaaa	caccactcag	tacttgtggt	atcagaggaa	4500
aaaattgaag	ctccccgtaa	gagaatcgaa	tggatcgccc	cgattggcat	agccggtgca	4560
gataagaact	acaacctggc	tttcgggttt	ccgccgcagg	cacggtacga	cctggtgttc	4620
atcaacattg	gaactaaata	cagaaaccac	cactttcagc	agtgcgaaga	ccatgcggcg	4680
accttaaaaa	ccctttcgcg	ttcggccctg	aattgtttta	actcaggagg	caccctcgtg	4740
gtgaagtcct	atggctacgc	cgaccgcaac	agtgaggacg	tagtcaccgc	tcttgccaga	4800
aagtttgtca	gggtgtctgc	agcgagacca	gattgtgtct	caagcaatac	agaaatgtac	4860
ctgattttcc	gacaactaga	caacagccgt	acacggcaat	tcaccccgca	ccatctgaat	4920
tgcgtgattt	cgtccgtgta	tgaggggtaca	agagatggag	ttggagccgc	gccgtcatac	4980
cgcacaaaaa	gggagaatat	tgctgactgt	caagaggaag	cagttgtcaa	cgcagccaat	5040
ccgctgggta	gaccaggcga	aggagtctgc	cgtgccatct	ataaacgttg	gccgaccagt	5100
tttaccgatt	cagccacgga	gacaggcacc	gcaagaatga	ctgtgtgcct	aggaaagaaa	5160
gtgatccacg	cggtcggccc	tgatttccgg	aagcaccag	aagcagaagc	cttgaaattg	5220
ctacaaaacg	cctaccatgc	agtggcagac	ttagtaaatg	aacataacat	caagtctgtc	5280
gccattccac	tgctatctac	aggcatttac	gcagccggaa	aagaccgcct	tgaagtatca	5340
cttaactgct	tgacaaccgc	gctagacaga	actgacgcgg	acgtaaccat	ctattgcctg	5400

## 26602U\_Patent-IN\_sequence\_listing.ST25.txt

gataagaagt ggaaggaaaag aatcgacgcg gcactccaac ttaaggagtc tgtaacagag	5460
ctgaaggatg aagatatgga gatcgacgat gagttagtat ggattcatcc agacagttgc	5520
ttgaaggggaa gaaaggggatt cagtactaca aaaggaaaat tgtattcgta cttcgaaggc	5580
accaaattcc atcaagcagc aaaagacatg gcggagataa aggtcctggt ccctaattgac	5640
caggaaagta atgaacaact gtgtgcctac atattgggtg agaccatgga agcaatccgc	5700
gaaaagtgcc cggtcgacca taacccgctc tctagcccg ccaaaacgtt gccgtgcctt	5760
tgcatgtatg ccatgacgcc agaaagggtc cacagactta gaagcaataa cgtcaaagaa	5820
gttacagtat gtcctccac ccccttcct aagcacaaaa ttaagaatgt tcagaagggt	5880
cagtgcacga aagtagtcct gtttaatccg cacactcccg cattcgttcc cgcccgtgtaag	5940
tacatagaag tgccagaaca gcctaccgct cctcctgcac aggccgagga ggccccgaa	6000
gttgtagcga caccgtcacc atctacagct gataacacct cgcttgatgt cacagacatc	6060
tcactggata tggatgacag tagcgaaggc tcactttttt cgagcttttag cggatcggac	6120
aactctatta ctagtatgga cagttggtcg tcaggacctt gttcactaga gatagtagac	6180
cgaaggcagg tgggtggtggc tgacgttcat gccgtccaag agcctgcccc tattccaccg	6240
ccaaggctaa agaagatggc ccgcctggca gcggcaagaa aagagccac tccaccggca	6300
agcaatagct ctgagtcctt ccacctctt tttggtgggg tatccatgtc cctcggatca	6360
attttcgacg gagagacggc ccgccaggca gcggtacaac ccctggcaac aggccccacg	6420
gatgtgccta tgtcttttcg atcgttttcc gacggagaga ttgatgagct gagccgcaga	6480
gtaactgagt ccgaacccgt cctgtttgga tcatttgaac cgggcgaagt gaactcaatt	6540
atatcgtccc gatcagccgt atcttttcct ctacgcaagc agagacgtag acgcaggagc	6600
aggaggactg aatactgact aaccggggta ggtgggtaca tattttcgac ggacacaggc	6660
cctgggcact tgcaaaagaa gtccgttctg cagaaccagc ttacagaacc gaccttgag	6720
cgcaatgtcc tggaaagaat tcatgccccg gtgctcgaca cgtcgaaaga ggaacaactc	6780
aaactcaggt accagatgat gccaccgaa gccaacaaaa gtaggtacca gtctcgtaaa	6840
gtagaaaatc agaaagccat aaccactgag cgactactgt caggactacg actgtataac	6900
tctgccacag atcagccaga atgctataag atcacctatc cgaaaccatt gtactccagt	6960
agcgtaccgg cgaactactc cgatccacag ttcgctgtag ctgtctgtaa caactatctg	7020
catgagaact atccgacagt agcatcttat cagattactg acgagtacga tgcttacttg	7080
gatatggtag acgagacagt cgcatgcctg gatactgcaa ctttctgccc cgctaagctt	7140
agaagttacc cgaaaaaaca tgagtataga gccccgaata tccgcagtgc ggttccatca	7200
gcgatgcaga acacgctaca aaatgtgctc attgccgcaa ctaaaagaaa ttgcaacgtc	7260
acgcagatgc gtgaactgcc aacactggac tcagcgacat tcaatgtcga atgctttcga	7320

## 26602U\_Patent-IN\_sequence\_listing.ST25.txt

aaatatgcat	gtaatgacga	gtattgggag	gagttcgctc	ggaagccaat	taggattacc	7380
actgagtttg	tcaccgcata	tgtagctaga	ctgaaaggcc	ctaaggccgc	cgactatatt	7440
gcaaagacgt	ataatttggt	cccattgcaa	gaagtgccta	tggatagatt	cgtcatggac	7500
atgaaaagag	acgtgaaagt	tacaccaggc	acgaaacaca	cagaagaaag	accgaaagta	7560
caagtgatac	aagccgcaga	acccttggcg	actgcttact	tatgcgggat	tcaccgggaa	7620
ttagtgcgta	ggcttacggc	cgtcttgctt	ccaaacattc	acacgctttt	tgacatgtcg	7680
gcggaggatt	ttgatgcaat	catagcagaa	cacttcaagc	aaggcgaccc	ggtactggag	7740
acggatatcg	catcattcga	caaaagccaa	gacgacgcta	tggcgtaac	cggctctgatg	7800
atcttggagg	acctgggtgt	ggatcaacca	ctactcgact	tgatcgagtg	cgcctttgga	7860
gaaatatcat	ccacccatct	acctacgggt	actcgtttta	aattcggggc	gatgatgaaa	7920
tccggaatgt	tcctcacact	ttttgtcaac	acagttttga	atgtcgttat	cgccagcaga	7980
gtactagaag	agcggcttaa	aacgtccaga	tgtgcagcgt	tcattggcga	cgacaacatc	8040
atacatggag	tagtatctga	caaagaaatg	gctgagaggt	gcgccacctg	gctcaacatg	8100
gaggttaaga	tcatcgacgc	agtcatcggg	gagagaccac	cttacttctg	cggcggattt	8160
atcttgcaag	attcgggttac	ttccacagcg	tgccgcgtgg	cggatcccct	gaaaaggctg	8220
tttaagttgg	gtaaaccgct	cccagccgac	gacgagcaag	acgaagacag	aagacgcgct	8280
ctgctagatg	aaacaaaggc	gtggtttaga	gtaggtataa	caggcacttt	agcagtggcc	8340
gtgacgaccc	ggtatgaggt	agacaatatt	acacctgtcc	tactggcatt	gagaactttt	8400
gcccagagca	aaagagcatt	ccaagccatc	agaggggaaa	taaagcatct	ctacggtggg	8460
cctaaatagt	cagcatagta	catttcatct	gactaatacc	acaacaccac	cacctctaga	8520
ttaattaact	cgaggcgcg	cgggccgaga	ggatctttgt	gaaggaacct	tacttctgtg	8580
gtgtgacata	attggacaaa	ctacctacag	agatttaaag	ctctaaggta	aatataaaat	8640
ttttaagtgt	ataatgtgtt	aaactactga	ttctaattgt	ttgtgtattt	tagattccaa	8700
cctatggaac	tgatgaatgg	gagcagtggt	ggaatgcctt	taatgaggaa	aacctgtttt	8760
gctcagaaga	aatgccatct	agtgatgatg	aggctactgc	tgactctcaa	cattctactc	8820
ctccaaaaaa	gaagagaaa	gtagaagacc	ccaaggactt	tccttcagaa	ttgctaagtt	8880
ttttgagtca	tgctgtgttt	agtaatagaa	ctcttgcttg	ctttgctatt	tacaccacaa	8940
aggaaaaagc	tgcaactgcta	tacaagaaaa	ttatggaaaa	atatttgatg	tagcggccca	9000
atgatccgac	cagcaaaact	cgatgtactt	ccgaggaact	gatgtgcata	atgcatcagg	9060
ctggtacatt	agatccccgc	ttaccgcggg	caatatagca	acactaaaaa	ctcgatgtac	9120
ttccgaggaa	gcgcagtgca	taatgctgcg	cagtgttgcc	acataaccac	tatattaacc	9180

26602U\_Patent-IN\_sequence\_listing.ST25.txt

atttatctag	cggacgccaa	aaactcaatg	tatttctgag	gaagcgtggg	gcataatgcc	9240
acgcagcgtc	tgcataactt	ttattatttc	ttttattaat	caacaaaatt	ttgttttttaa	9300
catttcaaaa	aaaaaaaaaa	aaaaaaaaaa	aaaaaaaaag	ggaattccca	acttgtttat	9360
tgacgcttat	aatggttaca	aataaagcaa	tagcatcaca	aatttcacaa	ataaagcatt	9420
tttttctactg	cattctagtt	gtggtttgtc	caaactcatc	aatgtatctt	atcatgtctg	9480
gatccgtcga	gacgcgtgcg	gccgcgggaa	ttcgatcttt	atgtgtaact	cttggtgtaa	9540
gctcttacac	caatgctggg	ggacatgtac	ctcccagggg	cccaggaaga	ctacgggagg	9600
ctacaccaac	gtcaatcaga	ggggcctgtg	tagctaccga	taagcggacc	ctcaagaggg	9660
cattagcaat	agtgtttata	aggccccctt	gttaacccta	aacgggtagc	atatgcttcc	9720
cgggtagtag	tatatactat	ccagactaac	cctaattcaa	tagcatatgt	taccaaacgg	9780
gaagcatatg	ctatcgaatt	agggttagta	aaagggtcct	aaggaacagc	gatatctccc	9840
accccatgag	ctgtcacggg	tttatttaca	tggggtcagg	attccacgag	ggtagtgaac	9900
catttttagtc	acaagggcag	tggctgaaga	tcaaggagcg	ggcagtgaac	tctcctgaat	9960
cttcgcctgc	ttcttcattc	tccttcgttt	agctaataga	ataactgctg	agttgtgaac	10020
agtaagggtg	atgtgagggtg	ctcgaaaaca	aggtttcagg	tgacgcccc	agaataaaat	10080
ttggacgggg	ggttcagtg	tggcattgtg	ctatgacacc	aatataaccc	tcacaaaccc	10140
cttgggcaat	aaatactagt	gtaggaatga	aacattctga	atatctttta	caatagaaat	10200
ccatgggggtg	gggacaagcc	gtaaagactg	gatgtccatc	tcacacgaat	ttatggctat	10260
gggcaacaca	taatcctagt	gcaatatgat	actgggggtta	ttaagatgtg	tcccaggcag	10320
ggaccaagac	aggtgaacca	tgttggttaca	ctctatttgt	aacaagggga	aagagagtgg	10380
acgccgacag	cagcggactc	cactgggtgt	ctctaaccac	cccgaaaatt	aaacggggct	10440
ccacgccaat	ggggcccata	aacaaagaca	agtggccact	cttttttttg	aaattgtgga	10500
gtggggggcac	gcgtcagccc	ccacacgccg	ccctgcgggt	ttggactgta	aaataagggt	10560
gtaataactt	ggctgattgt	aaccccgcta	accactgcgg	tcaaaccact	tgcccacaaa	10620
accactaatg	gcaccccg	gaatacctgc	ataagtaggt	gggcgggcca	agataggggc	10680
gcgattgctg	cgatctggag	gacaaattac	acacacttgc	gcctgagcgc	caagcacagg	10740
gttggttggtc	ctcatattca	cgaggctcgt	gagagcacgg	tgggctaata	ttgccatggg	10800
tagcatatac	tacccaaata	tctggatagc	atatgctatc	ctaacttata	tctgggtagc	10860
ataggctatc	ctaacttata	tctgggtagc	atatgctatc	ctaacttata	tctgggtagt	10920
atatgctatc	ctaatttata	tctgggtagc	ataggctatc	ctaacttata	tctgggtagc	10980
atatgctatc	ctaacttata	tctgggtagt	atatgctatc	ctaacttgta	tccgggtagc	11040
atatgctatc	ctaatagaga	ttagggtagt	atatgctatc	ctaatttata	tctgggtagc	11100

## 26602U\_Patent-IN\_sequence\_listing.ST25.txt

atatactacc caaatatctg gatagcatat gctatcctaa tctatatctg ggtagcatat 11160  
gctatcctaa tctatatctg ggtagcatag gctatcctaa tctatatctg ggtagcatat 11220  
gctatcctaa tctatatctg ggtagtatat gctatcctaa tttatatctg ggtagcatag 11280  
gctatcctaa tctatatctg ggtagcatat gctatcctaa tctatatctg ggtagtatat 11340  
gctatcctaa tctgtatccg ggtagcatat gctatcctca tgcataata gtcagcatat 11400  
gatacccagt agtagagtgg gagggtctat ctttgcatat gccgccacct cccaaggggg 11460  
cgtgaatttt cgctgcttgt ctttttcctg catgcatcac tagtgaattc gcggccgcgt 11520  
taggggtgtg aaagtcccca ggctccccag caggcagaag tatgcaaagc atgcatctca 11580  
attagtcagc aaccagggtgt ggaaagtccc caggctcccc agcaggcaga agtatgcaaa 11640  
gcatgcatct caattagtca gcaaccatag tcccgccctt aactccgccc atcccgcccc 11700  
taactccgcc cagttccgcc cattctccgc cccatggctg actaattttt tttatttatg 11760  
cagaggccga ggccgcctcg gcctctgagc tattccagaa gtagtgagga ggcttttttg 11820  
gaggcctagg cttttgcaaa aagcttgcag gcctgcaggt cggccgccac gaccggtgcc 11880  
gccaccatcc cctgaccac gccctgacc ctcacaagg agacgacctt ccatgaccga 11940  
gtacaagccc acggtgcgcc tcgccaccgc cgacgacgtc ccccgggccg tacgcaccct 12000  
cgccgccgcg ttcgccgact accccgccac gcgccacacc gtcgaccgcg accgccacat 12060  
cgagcgggtc accgagctgc aagaactctt cctcacgctc gtcgggctcg acatcgcaa 12120  
gggtgtgggtc gcggacgacg gcgccgcggt ggcggtcttg accacgccgg agagcgtcga 12180  
agcgggggcg gtgttcgccg agatcgggcc gcgcatggcc gaggtagcgc gttcccggct 12240  
ggccgcgcag caacagatgg aaggcctctt ggccgccac cggcccaagg agcccgcgtg 12300  
gttcctggcc accgtcggcg tctcgcccga ccaccagggc aagggtcttg gcagcgcctg 12360  
cgtgctcccc ggagtggagg cggccgagcg cgccggggtg cccgccttcc tggagacctc 12420  
cgcgccccgc aacctcccct tctacgagcg gtcggcttc accgtcaccg ccgacgtcga 12480  
ggtgcccga ggaccgcga cctggtgcat gaccgcaag cccggtgcct gacgcccgc 12540  
ccacgaccgc cagcgcgcga ccgaaaggag cgcacgacc catggctccg accgaagcca 12600  
cccggggcg ccccgccgac cccgcaccgc ccccgaggc ccaccgactc tagctagagg 12660  
atcataatca gccataccac atttgtagag gttttacttg ctttaaaaaa cctcccacac 12720  
ctccccctga acctgaaaca taaaatgaat gcaattgttg ttgttaactt gtttattgca 12780  
gcttataatg gttacaaata aagcaatagc atcaciaaatt tcacaaataa agcatttttt 12840  
tactgcatt ctagttgtgg tttgtccaac gcgtcggtac cagcttttgt tccctttagt 12900  
gaggggttaat ttcgagcttg gcgtaatcat ggtcatagct gtttcctgtg tgaaattgtt 12960



26602U\_Patent-IN\_sequence\_listing.ST25.txt

atccgctcac	aattccacac	aacatacgag	ccggaagcat	aaagtgtaaa	gcctgggggtg	13020
cctaattgagt	gagctaactc	acattaattg	cgtttcgctc	actgcccgt	ttccagtcgg	13080
gaaacctgtc	gtgccagctg	cattaatgaa	tcggccaacg	cgcggggaga	ggcggtttgc	13140
gtattgggcg	ctcttccgct	tcctcgctca	ctgactcgct	gcgctcggtc	gttcggctgc	13200
ggcgagcggg	atcagctcac	tcaaaggcgg	taatacgggt	atccacagaa	tcaggggata	13260
acgcaggaaa	gaacatgtga	gcaaaaggcc	agcaaaaggc	caggaaccgt	aaaaaggccg	13320
cgttgctggc	gtttttccat	aggctccgcc	cccctgacga	gcatcacaaa	aatcgacgct	13380
caagtcagag	gtggcgaaac	ccgacaggac	tataaagata	ccaggcgttt	ccccctggaa	13440
gctccctcgt	gcgctctcct	gttccgacct	tgccgcttac	cggatacctg	tccgcctttc	13500
tcccttcggg	aagcgtggcg	ctttctcata	gctcacgctg	taggtatctc	agttcggtgt	13560
aggctggtcg	ctccaagctg	ggctgtgtgc	acgaaccccc	cgttcagccc	gaccgctgcg	13620
ccttatccgg	taactatcgt	cttgagtcca	acccggtaag	acacgactta	tcgccactgg	13680
cagcagccac	tggtaacagg	attagcagag	cgaggatatgt	aggcgggtgct	acagagttct	13740
tgaagtgggtg	gcctaactac	ggctacacta	gaagaacagt	atttggtatc	tgcgctctgc	13800
tgaagccagt	taccttcgga	aaaagagttg	gtagctcttg	atccggcaaa	caaaccaccg	13860
ctggtagcgg	tggttttttt	gtttgcaagc	agcagattac	gcgcagaaaa	aaaggatctc	13920
aagaagatcc	tttgatcttt	tctacggggg	ctgacgctca	gtggaacgaa	aactcacggt	13980
aagggatttt	ggtcagtaga	ttatcaaaaa	ggatcttcac	ctagatcctt	ttaaattaa	14040
aatgaagttt	taaatcaatc	taaagtatat	atgagtaaac	ttgggtctgac	agttaccaat	14100
gcttaatcag	tgaggcacct	atctcagcga	tctgtctatt	tcgttcaccc	atagttgcct	14160
gactccccgt	cgtgtagata	actacgatac	gggagggcct	accatctggc	cccagtgctg	14220
caatgatacc	gcgagacca	cgctcaccgg	ctccagattt	atcagcaata	aaccagccag	14280
ccggaagggc	cgagcgaga	agtggtcctg	caactttatc	cgctccatc	cagtctatta	14340
attgttgccg	ggaagctaga	gtaagtagtt	cgccagttaa	tagtttgcg	aacgttggtg	14400
ccattgctac	aggcatcgtg	gtgtcacgct	cgctgtttgg	tatggcttca	ttcagctccg	14460
gttcccaacg	atcaaggcga	gttacatgat	cccccatggt	gtgcaaaaaa	gcggttagct	14520
ccttcgggtc	tccgatcgtt	gtcagaagta	agttggccgc	agtgttatca	ctcatgggtta	14580
tggcagcact	gcataattct	cttactgtca	tgccatccgt	aagatgcttt	tctgtgactg	14640
gtgagtactc	aaccaagtca	ttctgagaat	agtgtatgcg	gcgaccgagt	tgctcttgcc	14700
cggcgtcaat	acgggataat	accgcgccac	atagcagaac	tttaaaagtg	ctcatcattg	14760
gaaaacgttc	ttcggggcga	aaactctcaa	ggatcttacc	gctgttgaga	tccagttcga	14820
tgtaaccac	tcgtgcacc	aactgatctt	cagcatcttt	tactttcacc	agcgtttctg	14880

26602U\_Patent-IN\_sequence\_listing.ST25.txt

ggtgagcaaa aacaggaagg caaaatgccg caaaaaaggg aataagggcg acacggaaat	14940
gttgaatact catactcttc ctttttcaat attattgaag catttatcag ggttattgtc	15000
tcatgagcgg atacatattt gaatgtattt agaaaaataa acaaataagg gttccgcgca	15060
catttccccg aaaagtgcc c	15081

<210> 22  
 <211> 17753  
 <212> DNA  
 <213> Artificial Sequence

<220>  
 <223> cDNA

<400> 22	
ctgacgcgcc ctgtagcggc gcattaagcg cggcgggtgt ggtgggttacg cgcagcgtga	60
ccgctacact tgccagcgcc ctacgcgccg ctcctttcgc tttcttcctt tcctttctcg	120
ccacgttcgc cggcggatcc ggccattagc catattattc attgggtata tagcataaat	180
caatattggc tattggccat tgcatacggt gtatccatat cataatatgt acatttatat	240
tggctcatgt ccaacattac cgccatgttg acattgatta ttgactagtt attaatagta	300
atcaattacg gggtcattag ttcatagccc atatatggag ttccgcgtta cataacttac	360
ggtaaattggc ccgcctggct gaccgcccga cgacccccgc ccattgacgt caataatgac	420
gtatgttccc atagtaacgc caatagggac tttccattga cgtcaatggg tggagtattt	480
acggtaaaact gccacttg cagtacatca agtgtatcat atgccaagta cgccccctat	540
tgacgtcaat gacggtaaatt ggccgcctg gcattatgcc cagtacatga cttatggga	600
ctttcctact tggcagtaca tctacgtatt agtcatcgct attaccatgg tgatgcggtt	660
ttggcagtac atcaatgggc gtggatagcg gtttgactca cggggatttc caagtctcca	720
ccccattgac gtcaatggga gtttgttttg gcacaaaat caacgggact ttccaaaatg	780
tcgtaacaac tccgccccat tgacgcaaat gggcggtagg cgtgtacggt gggaggtcta	840
tataagcaga gtcggtttag tgaaccgtat tgacggcgta gtacacacta ttgaatcaaa	900
cagccgacca attgcactac catcacaatg gagaagccag tagtaaactg agacgtagac	960
ccccagagtc cgtttgctgt gcaactgcaa aaaagcttcc cgcaatttga ggtagtagca	1020
cagcagggtca ctccaaatga ccatgctaatt gccagagcat tttcgcatct ggccagtaaa	1080
ctaactcgagc tggagggttcc taccacagcg acgatcttgg acataggcag cgcaccggct	1140
cgtagaatgt tttccgagca ccagtatcat tgtgtctgcc ccatgcgtag tccagaagac	1200
ccggaccgca tgatgaaata tgccagtaaa ctggcgga aaagcgtgcaa gattacaaac	1260
aagaacttgc atgagaagat taaggatctc cggaccgtac ttgatacgcc ggatgctgaa	1320

26602U\_Patent-IN\_sequence\_listing.ST25.txt

acaccatcgc tctgctttca caacgatgtt acctgcaaca tgcgtgccga atattccgtc	1380
atgcaggacg tgtatatcaa cgctcccggg actatctatc atcaggctat gaaaggcgtg	1440
cggaccctgt actggattgg cttcgacacc acccagttca tgttctcggc tatggcaggt	1500
tcgtaccctg cgtacaacac caactggggc gacgagaaag tccttgaagc gcgtaacatc	1560
ggactttgca gcacaaagct gagtgaaggt aggacaggaa aattgtcgat aatgaggaag	1620
aaggagttga agcccgggtc gcgggtttat ttctccgtag gatcgacact ttatccagaa	1680
cacagagcca gcttgacag ctggcatctt ccatcggtgt tccacttgaa tggaaagcag	1740
tcgtacactt gccgctgtga tacagtgggt agttgcgaag gctacgtagt gaagaaaatc	1800
accatcagtc ccgggatcac gggagaaacc gtgggatacg cggttacaca caatagcgag	1860
ggcttcttgc tatgcaaagt tactgacaca gtaaaaggag aacgggtatc gttccctgtg	1920
tgcacgtaca tcccggccac catatgcat cagatgactg gtataatggc cacggatata	1980
tcacctgacg atgcacaaaa acttctgggt gggctcaacc agcgaattgt cattaacggg	2040
aggactaaca ggaacaccaa caccatgcaa aattaccttc tgccgatcat agcacaaggg	2100
ttcagcaaat gggctaagga gcgcaaggat gatcttgata acgagaaaat gctgggtact	2160
agagaacgca agcttacgta tggctgcttg tgggcgtttc gactaagaa agtacattcg	2220
ttttatcgcc cacctggaac gcagacctgc gtaaaagtcc cagcctcttt tagcgctttt	2280
cccatgtcgt ccgtatggac gacctctttg cccatgtcgc tgaggcagaa attgaaactg	2340
gcattgcaac caaagaagga ggaaaaactg ctgcaggctc cggaggaatt agtcatggag	2400
gccaaaggctg cttttgagga tgctcaggag gaagccagag cggagaagct ccgagaagca	2460
cttccaccat tagtggcaga caaaggcatc gaggcagccg cagaagttgt ctgcgaagtg	2520
gaggggctcc aggcggacat cggagcagca ttagttgaaa cccgcgcgg tcacgtaagg	2580
ataatacctc aagcaaatga ccgtatgac ggacagtata tcgttgcttc gccaaactct	2640
gtgctgaaga atgccaaact cgcaccagcg caccgcgtag cagatcaggt taagatcata	2700
acacactccg gaagatcagg aaggtagcgc gtcgaaccat acgacgctaa agtactgatg	2760
ccagcaggag gtgccgtacc atggccagaa ttcctagcac tgagtgaag cgccacgtta	2820
gtgtacaacg aaagagagtt tgtgaaccgc aaactatacc acattgccat gcatggcccc	2880
gccaaagaata cagaagagga gcagtacaag gttacaaagg cagagcttgc agaaacagag	2940
tacgtgtttg acgtggacaa gaagcgttgc gttaagaagg aagaagcctc aggtctggtc	3000
ctctcgggag aactgaccaa ccctccctat catgagctag ctctggaggg actgaagacc	3060
cgacctgcgg tcccgtacaa ggtcgaaaca ataggagtga taggcacacc ggggtcgggc	3120
aagtcagcta ttatcaagtc aactgtcacg gcacgagatc ttgttaccag cggaagaaa	3180
gaaaattgtc gcgaaattga ggccgacgtg ctaagactga ggggtatgca gattacgtcg	3240

## 26602U\_Patent-IN\_sequence\_listing.ST25.txt

aagacagtag	attcggttat	gctcaacgga	tgccacaaag	ccgtagaagt	gctgtacgtt	3300
gacgaagcgt	tcgctgcca	cgcaggagca	ctacttgctt	tgattgctat	cgtcaggccc	3360
cgcaagaagg	tagtactatg	cggagacccc	atgcaatgcg	gattcttcaa	catgatgcaa	3420
ctaaaggtag	atttcaatca	ccctgaaaaa	gacatatgca	ccaagacatt	ctacaagtat	3480
atctcccggc	gttgcacaca	gccagttaca	gctattgtat	cgacactgca	ttacgatgga	3540
aagatgaaaa	ccacgaaccc	gtgcaagaag	aacattgaaa	tcgatattac	agggggccaca	3600
aagccgaagc	caggggatat	catcctgaca	tgtttccgcg	ggtgggttaa	gcaattgcaa	3660
atcgactatc	ccggacatga	agtaatgaca	gccgcggcct	cacaagggtt	aaccagaaaa	3720
ggagtgtatg	ccgtccggca	aaaagtcaat	gaaaaccac	tgtacgcgat	cacatcagag	3780
catgtgaacg	tgttgctcac	ccgcactgag	gacaggctag	tgtggaaaac	cttgcaaggc	3840
gacccatgga	ttaagcagct	cactaacata	cctaaaggaa	actttcaggc	tactatagag	3900
gactgggaag	ctgaacacaa	gggaataatt	gctgcaataa	acagccccac	tccccgtgcc	3960
aatccgttca	gctgcaagac	caacgtttgc	tgggcgaaaag	cattggaacc	gatactagcc	4020
acggccggta	tcgtacttac	cggttgccag	tggagcgaac	tgttcccaca	gtttgcggat	4080
gacaaaccac	attcggccat	ttacgcctta	gacgtaattt	gcattaagtt	tttcggcatg	4140
gacttgacaa	gcggactgtt	ttctaaacag	agcatcccac	taacgtacca	tcccgccgat	4200
tcagcgaggc	cggtagctca	ttgggacaac	agcccaggaa	cccgaagta	tgggtacgat	4260
cacgccattg	ccgccgaact	ctcccgtaga	tttccggtgt	tccagctagc	tgggaagggc	4320
acacaacttg	atttgcagac	ggggagaacc	agagttatct	ctgcacagca	taacctggtc	4380
ccggtgaacc	gcaatcttcc	tcacgcctta	gtccccgagt	acaaggagaa	gcaaccggc	4440
ccggtcgaaa	aattcttgaa	ccagttcaaa	caccactcag	tacttgtggt	atcagaggaa	4500
aaaattgaag	ctccccgtaa	gagaatcgaa	tggatcgccc	cgattggcat	agccggtgca	4560
gataagaact	acaacctggc	tttcgggttt	ccgccgcagg	cacggtacga	cctggtgttc	4620
atcaacattg	gaactaaata	cagaaaccac	cactttcagc	agtgcgaaga	ccatgcggcg	4680
accttaaaaa	ccctttcgcg	ttcggccctg	aattgtttta	actcaggagg	caccctcgtg	4740
gtgaagtcct	atggctacgc	cgaccgcaac	agtgaggacg	tagtcaccgc	tcttgccaga	4800
aagtttgtca	gggtgtctgc	agcgagacca	gattgtgtct	caagcaatac	agaaatgtac	4860
ctgattttcc	gacaactaga	caacagccgt	acacggcaat	tcaccccgca	ccatctgaat	4920
tgcgtgattt	cgtccgtgta	tgaggggtaca	agagatggag	ttggagccgc	gccgtcatac	4980
cgcacaaaaa	gggagaatat	tgctgactgt	caagaggaag	cagttgtcaa	cgcagccaat	5040
ccgctgggta	gaccaggcga	aggagtctgc	cgtgccatct	ataaacgttg	gccgaccagt	5100

## 26602U\_Patent-IN\_sequence\_listing.ST25.txt

tttaccgatt cagccacgga gacaggcacc gcaagaatga ctgtgtgcct aggaaagaaa	5160
gtgatccacg cggtcggccc tgatttccgg aagcaccag aagcagaagc cttgaaattg	5220
ctacaaaacg cctaccatgc agtggcagac ttagtaaatg aacataacat caagtctgtc	5280
gccattccac tgctatctac aggcatctac gcagccgga aagaccgcct tgaagtatca	5340
cttaactgct tgacaaccgc gctagacaga actgacgcgg acgtaaccat ctattgcctg	5400
gataagaagt ggaaggaaag aatcgacgcg gcactccaac ttaaggagtc tgtaacagag	5460
ctgaaggatg aagatatgga gatcgacgat gagttagtat ggattcatcc agacagttgc	5520
ttgaaggga gaaagggtt cagtactaca aaaggaaaat tgtattcgta cttcgaaggc	5580
accaaattcc atcaagcagc aaaagacatg gcggagataa aggtcctgtt ccctaattgac	5640
caggaaagta atgaacaact gtgtgcctac atattgggtg agaccatgga agcaatccgc	5700
gaaaagtgcc cggtcgacca taaccgctc tctagccgc ccaaacgtt gccgtgcctt	5760
tgcatgtatg ccatgacgcc agaaagggtc cacagactta gaagcaataa cgtcaaagaa	5820
gttacagtat gctcctccac ccccttccct aagcacaaaa ttaagaatgt tcagaagggt	5880
cagtgcacga aagtagtcct gtttaatccg cacactcccg cattcgttcc cgcccgtgag	5940
tacatagaag tgccagaaca gcctaccgct cctcctgcac aggccgagga ggccccgaa	6000
gttgtagcga caccgtcacc atctacagct gataacacct cgcttgatgt cacagacatc	6060
tcactggata tggatgacag tagcgaaggc tcactttttt cgagcttttag cggatcggac	6120
aactctatta ctagtatgga cagttggtcg tcaggacctt gttcactaga gatagtagac	6180
cgaaggcagg tgggtggtggc tgacgttcat gccgtccaag agcctgcccc tattccaccg	6240
ccaaggctaa agaagatggc ccgcctggca gcggcaagaa aagagcccac tccaccggca	6300
agcaatagct ctgagtcctt ccacctctct tttggtgggg tatccatgtc cctcggatca	6360
atcttcgacg gagagacggc ccgccaggca gcggtacaac ccctggcaac aggccccacg	6420
gatgtgccta tgtctttcgg atcgttttcc gacggagaga ttgatgagct gagccgcaga	6480
gtaactgagt ccgaacccgt cctgttttga tcatttgaac cgggcgaagt gaactcaatt	6540
atatcgctcc gatcagccgt atcttttccct ctacgcaagc agagacgtag acgcaggagc	6600
aggaggactg aatactgact aaccggggta ggtgggtaca tattttcgac ggacacaggc	6660
cctgggcact tgcaaaagaa gtccgttctg cagaaccagc ttacagaacc gaccttgag	6720
cgcaatgtcc tggaaagaat tcatgccccg gtgctcgaca cgtcgaaaga ggaacaactc	6780
aaactcaggt accagatgat gccaccgaa gccaacaaaa gtaggtacca gtctcgtaaa	6840
gtagaaaatc agaaagccat aaccactgag cgactactgt caggactacg actgtataac	6900
tctgccacag atcagccaga atgctataag atcacctatc cgaaaccatt gtactccagt	6960
agcgtaccgg cgaactactc cgatccacag ttcgctgtag ctgtctgtaa caactatctg	7020

26602U\_Patent-IN\_sequence\_listing.ST25.txt

catgagaact atccgacagt agcatcttat cagattactg acgagtacga tgcttacttg	7080
gatatggtag acgagacagt cgcctgcctg gatactgcaa ccttctgccc cgctaagctt	7140
agaagttacc cgaaaaaaca tgagtataga gccccgaata tccgcagtgc ggttccatca	7200
gcgatgcaga acacgctaca aaatgtgctc attgccgcaa ctaaaagaaa ttgcaacgtc	7260
acgcagatgc gtgaactgcc aacactggac tcagcgacat tcaatgtcga atgctttcga	7320
aaatatgcat gtaatgacga gtattgggag gagttcgctc ggaagccaat taggattacc	7380
actgagtttg tcaccgcata tgtagctaga ctgaaaggcc ctaaggccgc cgcactattt	7440
gcaaagacgt ataatttggc cccattgcaa gaagtgccta tggatagatt cgtcatggac	7500
atgaaaagag acgtgaaagt tacaccaggc acgaaacaca cagaagaaag accgaaagta	7560
caagtgatac aagccgcaga acccctggcg actgcttact tatgcgggat tcaccgggaa	7620
ttagtgcgta ggcttacggc cgtcttgctt ccaaacattc acacgctttt tgacatgtcg	7680
gcggaggatt ttgatgcaat catagcagaa cacttcaagc aaggcgaccc ggtactggag	7740
acggatatcg catcattcga caaaagccaa gacgacgcta tggcgtaac cggctctgatg	7800
atcttgaggg acctgggtgt ggatcaacca ctactcgact tgatcgagtg cgcctttgga	7860
gaaatatcat ccacccatct acctacgggt actcgtttta aattcggggc gatgatgaaa	7920
tccggaatgt tcctcacact ttttgtcaac acagttttga atgtcgttat cgccagcaga	7980
gtactagaag agcggcttaa aacgtccaga tgtgcagcgt tcattggcga cgacaacatc	8040
atacatggag tagtatctga caaagaaatg gctgagaggt gcgccacctg gctcaacatg	8100
gaggttaaga tcatcgacgc agtcatcggg gagagaccac cttacttctg cggcggattt	8160
atcttgcaag attcgggtac ttccacagcg tgccgcgtgg cggatcccct gaaaaggctg	8220
tttaagttag gtaaaccgct cccagccgac gacgagcaag acgaagacag aagacgcgct	8280
ctgctagatg aaacaaaggc gtggtttaga gtaggtataa caggcacttt agcagtggcc	8340
gtgacgaccc ggtatgaggt agacaatatt acacctgtcc tactggcatt gagaactttt	8400
gcccagagca aaagagcatt ccaagccatc agaggggaaa taaagcatct ctacggtggg	8460
cctaaatagt cagcatagta ctttcatct gactaatacc acaacaccac cacctctaga	8520
ttaattaact cgaggcgcgc cgggcccaga ggatctttgt gaaggaacct tacttctgtg	8580
gtgtgacata attggacaaa ctacctacag agatttaaag ctctaaggta aatataaaat	8640
ttttaagtgt ataatgtgtt aaactactga ttctaattgt ttgtgtattt tagattccaa	8700
cctatggaac tgatgaatgg gagcagtggg ggaatgcctt taatgaggaa aacctgtttt	8760
gctcagaaga aatgccatct agtgatgatg aggctactgc tgactctcaa cattctactc	8820
ctccaaaaaa gaagagaaaag gtagaagacc ccaaggactt tccttcagaa ttgctaagtt	8880

26602U\_Patent-IN\_sequence\_listing.ST25.txt

ttttgagtca	tgctgtgttt	agtaatagaa	ctcttgcttg	ctttgctatt	tacaccacaa	8940
aggaaaaagc	tgcactgcta	tacaagaaaa	ttatggaaaa	atatttgatg	tagcggccca	9000
atgatccgac	cagcaaaaact	cgatgtactt	ccgaggaact	gatgtgcata	atgcatcagg	9060
ctggtacatt	agatccccgc	ttaccgcggg	caatatagca	acactaaaaa	ctcgatgtac	9120
ttccgaggaa	gcgcagtgca	taatgctgcg	cagtgttgcc	acataaccac	tatattaacc	9180
atttatctag	cggacgccaa	aaactcaatg	tatttctgag	gaagcgtggt	gcataatgcc	9240
acgcagcgtc	tgcataactt	ttattatttc	ttttattaat	caacaaaatt	ttgtttttta	9300
catttcaaaa	aaaaaaaaaa	aaaaaaaaaa	aaaaaaaaag	ggaattccca	acttgtttat	9360
tgcagcttat	aatggttaca	aataaaagca	tagcatcaca	aatttcacaa	ataaagcatt	9420
tttttcaactg	catttctagt	gtggtttgtc	caaactcatc	aatgtatctt	atcatgtctg	9480
gatccgtcga	gacgcgtgcg	gccgcgggaa	ttcgatgtgg	ctttcatcct	ggagcagact	9540
ttgcagtctg	tggactgcaa	cacaacattg	cctttatgtg	taactcttgg	ctgaagctct	9600
tacaccaatg	ctggggggaca	tgtacctccc	aggggcccag	gaagactacg	ggaggctaca	9660
ccaacgtcaa	tcagagggggc	ctgtgtagct	accgataagc	ggaccctcaa	gagggcatta	9720
gcaatagtgt	ttataaggcc	cccttggtta	ccctaaacgg	gtagcatatg	cttcccgggt	9780
agtagtatat	actatccaga	ctaaccctaa	ttcaatagca	tatgttacct	aacgggaagc	9840
atatgctatc	gaattagggg	tagtaaaagg	gtcctaagga	acagcgatat	ctcccacccc	9900
atgagctgtc	acgggttttat	ttacatgggg	tcaggattcc	acgagggtag	tgaaccattt	9960
tagtcacaag	ggcagtggtg	gaagatcaag	gagcgggcag	tgaactctcc	tgaatcttcg	10020
cctgcttctt	catttctcct	cgtttagcta	atagaataac	tgctgagttg	tgaacagtaa	10080
gggtgtatgt	aggtgctcga	aaacaagggt	tcagggtgacg	cccccagaat	aaaatttgga	10140
cgggggggtc	agtgggtggc	ttgtgctatg	acaccaatat	aaccctcaca	aacccttggt	10200
gcaataaata	ctagtgtagg	aatgaaacat	tctgaatatc	tttaacaata	gaaatccatg	10260
gggtggggac	aagccgtaaa	gactggatgt	ccatctcaca	cgaatttatg	gctatgggca	10320
acacataatc	ctagtgcaat	atgatactgg	ggttattaag	atgtgtccca	ggcaggggacc	10380
aagacagggt	aaccatgttg	ttacactcta	tttgtaacaa	ggggaaagag	agtggacgcc	10440
gacagcagcg	gactccactg	gttgtctcta	acacccccga	aaattaaacg	gggctccacg	10500
ccaatggggc	ccataaacia	agacaagtgg	ccactctttt	ttttgaaatt	gtggagtggg	10560
ggcacgcgtc	agccccca	cgccgccctg	cggttttgga	ctgtaaaata	aggggtgtaat	10620
aacttggctg	attgtaaccc	cgctaaccac	tgcgggtcaaa	ccacttgccc	acaaaaccac	10680
taatggcacc	ccgggggaata	cctgcataag	taggtgggcg	ggccaagata	ggggcgcgat	10740
tgctgcgatc	tggaggacaa	attacacaca	cttgccgctg	agcgccaagc	acagggttgt	10800

26602U\_Patent-IN\_sequence\_listing.ST25.txt

tggtcctcat attcacgagg tcgctgagag cacggtgggc taatgttgcc atgggtagca	10860
tatactaccc aaatatctgg atagcatatg ctatcctaatt ctatatctgg gtagcatagg	10920
ctatcctaatt ctatatctgg gtagcatatg ctatcctaatt ctatatctgg gtagtatatg	10980
ctatcctaatt ttatatctgg gtagcatagg ctatcctaatt ctatatctgg gtagcatatg	11040
ctatcctaatt ctatatctgg gtagtatatg ctatcctaatt ctgtatccgg gtagcatatg	11100
ctatcctaatt agagattagg gtagtatatg ctatcctaatt ttatatctgg gtagcatata	11160
ctacccaaat atctggatag catatgctat cctaattctat atctgggtag catatgctat	11220
cctaattctat atctgggtag cataggctat cctaattctat atctgggtag catatgctat	11280
cctaattctat atctgggtag tatatgctat cctaatttctat atctgggtag cataggctat	11340
cctaattctat atctgggtag catatgctat cctaattctat atctgggtag tatatgctat	11400
cctaattctgt atccgggtag catatgctat cctcatgcat atacagtcag catatgatac	11460
ccagtagtag agtgggagtg ctatcctttg catatgccgc cacctcccaa gggggcgtga	11520
atcttcgctg cttgtccttt tcctgcatgc tggttgctcc cattcttagg tgaatttaag	11580
gaggccaggc taaagccgtc gcatgtctga ttgctacca ggtaaagtgc gctaattgtt	11640
tccaacgcga gaagggtgtg agcgcggagc tgagtgcgtg gacaacatgg gtatgcccc	11700
ttgccccatg ttgggaggac gaaaatgggtg acaagacaga tggccagaaa tacaccaaca	11760
gcacgcatga tgtctactgg ggatttattc tttagtgcgg gggaatacac ggcttttaat	11820
acgattgagg gcgtctccta acaagttaca tcactcctgc ccttcctcac cctcatctcc	11880
atcacctcct tcctctccgt catctccgtc atcacctcct gcggcagccc cttccaccat	11940
agggtgaaac caggaggga aatctactcc atcgtcaaag ctgcacacag tcaccctgat	12000
attgcaggta ggagcgggct ttgtcataac aaggctccta atcgcctcct tcaaaacctc	12060
agcaaataata tgagtttgta aaaagaccat gaaataacag acaatggact cccttagcgg	12120
gccaggttgt gggccgggtc caggggccat tccaaagggg agacgactca atggtgtaag	12180
acgacattgt ggaatagcaa gggcagttcc tcgccttagg ttgtaaaggg aggtcttact	12240
acctccatat acgaacacac cggcgaccca agttccttcg tcggtagtcc tttctacgtg	12300
actcctagcc aggagagctc ttaaaccctc tgcaatgttc tcaaatttcg ggttggaacc	12360
tccttgacca cgatgctttc caaaccaccc tccttttttg cgcctgcctc catcacctg	12420
acccgggggt ccagtgcctg ggccttctcc tgggtcatct gcggggccct gctctatcgc	12480
tcccgggggc acgtcaggct caccatctgg gccaccttct tgggtggtatt caaaataatc	12540
ggcttcccct acagggtgga aaaatggcct tctacctgga gggggcctgc gcggtggaga	12600
cccggatgat gatgactgac tactgggact cctgggcctc ttttctccac gtccacgacc	12660



26602U\_Patent-IN\_sequence\_listing.ST25.txt

tctccccctg	gctctttcac	gacttcccc	cctggctctt	tcacgtcctc	taccccggcg	12720
gcctccacta	cctcctcgac	cccggcctcc	actacctcct	cgaccccggc	ctccactgcc	12780
tcctcgaccc	cggcctccac	ctcctgctcc	tgccccctct	gctcctgccc	ctcctcctgc	12840
tcctgcccc	cctgccccctc	ctgctcctgc	ccctcctgcc	cctcctgctc	ctgccccctc	12900
tgccccctct	gctcctgccc	ctcctgcccc	tcctcctgct	cctgccccctc	ctgccccctc	12960
tcctgctcct	gccccctcctg	ccccctcctgc	tcctgccccct	cctgccccctc	ctgctcctgc	13020
ccctcctgcc	cctcctgctc	ctgccccctc	tgctcctgcc	cctcctgctc	ctgccccctc	13080
tgctcctgcc	cctcctgccc	ctcctgcccc	tcctcctgct	cctgccccctc	ctgctcctgc	13140
ccctcctgcc	cctcctgccc	ctcctgctcc	tgccccctct	cctgctcctg	ccccctcctgc	13200
ccctcctgcc	cctcctcctg	ctcctgcccc	tcctgccccct	cctcctgctc	ctgccccctc	13260
tcctgctcct	gccccctcctg	ccccctcctgc	ccctcctcct	gctcctgccc	ctcctgcccc	13320
tcctcctgct	cctgccccctc	ctcctgctcc	tgccccctct	gccccctcctg	ccccctcctc	13380
tgctcctgcc	cctcctcctg	ctcctgcccc	tcctgccccct	cctgccccctc	ctgccccctc	13440
tcctgctcct	gccccctcctc	ctgctcctgc	ccctcctgct	cctgccccctc	ccgctcctgc	13500
tcctgctcct	gttccaccgt	gggtcccttt	gcagccaatg	caacttggac	gtttttgggg	13560
tctccggaca	ccatctctat	gtcttggccc	tgatcctgag	ccgcccgggg	ctcctgggtct	13620
tccgcctcct	cgtcctcgtc	ctcttccccg	tcctcgtcca	tggttatcac	ccccctcttct	13680
ttgagggtcca	ctgccgccgg	agccttctgg	tccagatgtg	tctcccttct	ctcctaggcc	13740
atttccaggt	cctgtacctg	gccccctcgtc	agacatgatt	cacactaaaa	gagatcaata	13800
gacatcttta	ttagacgacg	ctcagtgaat	acagggagtg	cagactcctg	ccccctccaa	13860
cagccccccc	accctcatcc	ccttcattgg	cgctgtcaga	cagatccagg	tctgaaaatt	13920
ccccatcctc	cgaaccatcc	tcgtcctcat	caccaattac	tcgcagcccc	gaaaactccc	13980
gctgaacatc	ctcaagattt	gcgtcctgag	cctcaagcca	ggcctcaaat	tcctcgtccc	14040
cctttttgct	ggacggtagg	gatggggatt	ctcgggaccc	ctcctcttcc	tcttcaaggt	14100
caccagacag	agatgctact	ggggcaacgg	aagaaaagct	gggtgcggcc	tgtgaggatc	14160
agcttatatc	actagtgaat	tcgcggccgc	gttaggggtg	ggaaagtccc	caggctcccc	14220
agcaggcaga	agtatgcaaa	gcatgcatct	caattagtca	gcaaccagggt	gtggaaagtc	14280
cccagggtcc	ccagcaggca	gaagtatgca	aagcatgcat	ctcaattagt	cagcaaccat	14340
agtcccgccc	ctaactccgc	ccatccccgc	cctaactccg	cccagttccg	cccattctcc	14400
gccccatggc	tgactaattt	tttttattta	tgagagggcc	gaggccgcct	cggcctctga	14460
gctattccag	aagtagtgag	gaggcttttt	tggaggccta	ggcttttgca	aaaagcttgc	14520
atgcctgcag	gtcggccgcc	acgaccggtg	ccgccaccat	cccctgaccc	acgcccctga	14580

26602U\_Patent-IN\_sequence\_listing.ST25.txt

cccctcacia	ggagacgacc	ttccatgacc	gagtacaagc	ccacggtgcg	cctcgccacc	14640
cgcgacgacg	tcccccgggc	cgtacgcacc	ctcgccgccc	cgttcgccga	ctaccccgcc	14700
acgcgccaca	ccgtcgaccc	ggaccgccac	atcgagcggg	tcaccgagct	gcaagaactc	14760
ttcctcacgc	gcgtcgggct	cgacatcggc	aagggtgtggg	tcgcggacga	cggcgccgcg	14820
gtggcgggtct	ggaccacgcc	ggagagcgtc	gaagcggggg	cggtgttcgc	cgagatcggc	14880
ccgcgcatgg	ccgagttgag	cggttccccg	ctggccgcgc	agcaacagat	ggaaggcctc	14940
ctggcgccgc	accggcccaa	ggagcccgcg	tggttcctgg	ccaccgtcgg	cgtctcgccc	15000
gaccaccagg	gcaaggggtct	gggcagcgcc	gtcgtgctcc	ccggagtggg	ggcggccgag	15060
cgcgccgggg	tgcccgccct	cctggagacc	tccgcgcccc	gcaacctccc	cttctacgag	15120
cggctcggct	tcaccgtcac	cgccgacgtc	gagggtgccc	aaggaccgcg	cacctggtgc	15180
atgaccgcga	agcccgggtgc	ctgacgcccg	ccccacgacc	cgacgcgccc	gaccgaaagg	15240
agcgacgacg	cccattggctc	cgaccgaagc	cacccggggc	ggccccgccc	accccgccacc	15300
cgcccccgag	gcccaccgac	tctagctaga	ggatcataat	cagccatacc	acatttgtag	15360
aggttttact	tgcttttaaaa	aacctccac	acctccccct	gaacctgaaa	cataaaatga	15420
atgcaattgt	tgttgtaaac	ttgtttattg	cagcttataa	tggttacaaa	taaagcaata	15480
gcatcaciaa	tttcaciaaat	aaagcatttt	tttactgca	ttctagttgt	ggtttgtcca	15540
acgcgtcggg	accagctttt	gttcccttta	gtgagggtta	atttcgagct	tggcgtaatc	15600
atgggtcatag	ctgtttcctg	tgtgaaattg	ttatccgctc	acaattccac	acaacatacg	15660
agccggaagc	ataaagtgtg	aagcctgggg	tgcctaataa	gtgagctaac	tcacattaat	15720
tgcgtttcgc	tactgcccg	ctttccagtc	gggaaacctg	tcgtgccagc	tgcattaatg	15780
aatcgcccaa	cgcgcgggga	gaggcggttt	gcgtattggg	cgctcttccg	cttcctcgct	15840
cactgactcg	ctgcgctcgg	tcgttcggct	gcggcgagcg	gtatcagctc	actcaaaggc	15900
ggtaatacgg	ttatccacag	aatcagggga	taacgcagga	aagaacatgt	gagcaaaagg	15960
ccagcaaaaag	gccaggaacc	gtaaaaaggc	cgcggttgctg	gcgtttttcc	ataggctccg	16020
ccccctgac	gagcatcaca	aaaatcgacg	ctcaagtcag	aggtggcgaa	acccgacagg	16080
actataaaga	taccaggcgt	ttccccctgg	aagctccctc	gtgcgctctc	ctgttccgac	16140
cctgccgctt	accggatacc	tgtccgcctt	tctcccttcg	ggaagcgtgg	cgctttctca	16200
tagctcacgc	tgtaggtatc	tcagttcggg	gtaggtcgtt	cgctccaagc	tgggctgtgt	16260
gcacgaaccc	cccgttcagc	ccgaccgctg	cgccttatcc	ggtaactatc	gtcttgagtc	16320
caacccggta	agacacgact	tatcgccact	ggcagcagcc	actggtaaca	ggattagcag	16380
agcgaggtat	gtaggcgggtg	ctacagagtt	cttgaagtgg	tggcctaact	acggctacac	16440

26602U\_Patent-IN\_sequence\_listing.ST25.txt

tagaagaaca gtatttggtgta tctgctgctct gctgaagcca gttaccttcg gaaaaagagt	16500
tggttagctct tgatccggca aacaaaccac cgctggtagc ggtggttttt ttgtttgcaa	16560
gcagcagatt acgcgagaa aaaaaggatc tcaagaagat cttttgatct tttctacggg	16620
gtctgacgct cagtggaaacg aaaactcacg ttaagggatt ttggtcatga gattatcaaa	16680
aaggatcttc acctagatcc ttttaaatta aaaatgaagt tttaaatcaa tctaaagtat	16740
atatgagtaa acttggtctg acagttacca atgcttaatc agtgaggcac ctatctcagc	16800
gatctgtcta tttcgttcat ccatagttgc ctgactcccc gtcgtgtaga taactacgat	16860
acgggagggc ttaccatctg gccccagtgc tgcaatgata ccgagagacc cacgctcacc	16920
ggctccagat ttatcagcaa taaaccagcc agccggaagg gccgagcgca gaagtgggtcc	16980
tgcaacttta tccgcctcca tccagtctat taattgttgc cgggaagcta gagtaagtag	17040
ttcgccagtt aatagtttgc gcaacgttgt tgccattgct acaggcatcg tgggtgtcacg	17100
ctcgtcgttt ggtatggctt cattcagctc cggttcccaa cgatcaaggc gagttacatg	17160
atcccccatg ttgtgcaaaa aagcggttag ctcccttcggt cctccgatcg ttgtcagaag	17220
taagttggcc gcagtgttat cactcatggt tatggcagca ctgcataatt ctcttactgt	17280
catgccatcc gtaagatgct tttctgtgac tgggtgagtac tcaaccaagt cattctgaga	17340
atagtgtatg cggcgaccga gttgctcttg cccggcgctca atacgggata ataccgcgcc	17400
acatagcaga actttaaaag tgctcatcat tggaacacgt tcttcggggc gaaaactctc	17460
aaggatctta ccgctgttga gatccagttc gatgtaacct actcgtgcac ccaactgatc	17520
ttcagcatct tttactttca ccagcgtttc tgggtgagca aaaacaggaa ggcaaaatgc	17580
cgcaaaaaag ggaataaggc cgacacggaa atgttgaata ctcatactct tcctttttca	17640
atattattga agcatttatc agggttattg tctcatgagc ggatacatat ttgaatgtat	17700
ttagaaaaat aaacaaatag gggttccgcg cacatttccc cgaaaagtgc cac	17753

<210> 23  
 <211> 33  
 <212> DNA  
 <213> Artificial Sequence

<220>  
 <223> primer

<400> 23	
gtcatgaagc ttgccaccgc tcagagcacc ttc	33

<210> 24  
 <211> 31  
 <212> DNA  
 <213> Artificial Sequence

<220>

26602U\_Patent-IN\_sequence\_listing.ST25.txt

<223> primer

<400> 24

gacttctaga ctggggcggg gtgggatgaa c

31

<210> 25

<211> 33

<212> DNA

<213> Artificial Sequence

<220>

<223> primer

<400> 25

gtcatgaagc ttctcggcga ccagaacacc ttc

33

<210> 26

<211> 31

<212> DNA

<213> Artificial Sequence

<220>

<223> primer

<400> 26

gacttctaga ctggggcggg gtgggatgaa c

31